Information Day for Undergraduate Admissions
@HKU Science

6901 Bachelor of Science Admissions Talk

Speaker

Dr Eddy LAM
Associate Dean (Student Affairs)
Faculty of Science
Why HKU Science?
High University Rankings

QS Asia University Rankings 2023
#4
QS World University Rankings 2024
#26
QS World Graduate Employability Rankings 2022
#10
THE Asia University Rankings 2023
#4
THE World University Rankings 2024
#35
Academic Excellence

6 Departments/School

- School of Biological Sciences
- Department of Chemistry
- Department of Earth Sciences
- Department of Mathematics
- Department of Physics
- Department of Statistics and Actuarial Science

5 Units of Assessment (UoA)

- Biological Sciences
- Chemistry
- Earth Sciences & Other Physical Sciences
- Mathematics & Statistics
- Physics & Astronomy

3 of the 5 UoAs rank #1 in the territory-wide Research Assessment Exercise (RAE 2020) conducted by the University Grants Committee (UGC)
Top-notch Scholars
Awards and Achievements of our academics:

(Clarivate Analytics’ Essential Science Indicators)

18% of professoriate staff (average over the past decade) are classified Top1% scholars

Leads 6 Areas of Excellence (AoE) projects

1 Nobel Laureate Professor Sir Fraser Stoddart awarded the Nobel Prize in Chemistry in 2016 along with two fellow scientists

6 members of Chinese Academy of Sciences (CAS)

8 members of foreign academies

3 Hong Kong Academy of Sciences academicians
Faculty Achievements

Some of the Awards and Achievements of Our Academics

► Chern Prize
► Chinese Chemical Society’s Contribution Award in Carbohydrate Chemistry
► Dow Lectureship at California Institute of Technology (Caltech)
► Future Science Prize – Mathematics and Computer Science Prize
► Innovators under 35 China Award (Inventor)
► L’Oréal-UNESCO Awards For Women in Science
► National Excellent Young Scientists Fund
► Royal Society of Chemistry Centenary Lectureship and Medal, UK
► Silver Bauhinia Star
► State Natural Science Award, China
► Tan Kah Kee Science Award in Mathematics & Physics
► Tencent New Cornerstone Investigator Program
► The InnoStars Award
► University of Illinois at Urbana-Champaign (UIUC) Bailar Medal
International Environment

The Most International University in the World in 2023 #1

About 40% academic staff in the Faculty are from overseas

About 45% non-local students in the Faculty
Bachelor of Science (BSc)
Empowers scientific intellectuals to formulate solutions to society's challenges
Global Experience
Committed to nurturing students as global citizens with overseas experiences such as:

- Worldwide exchange studies
- Overseas research fellowship
- Overseas summer courses
- International Scientific conferences
- Field trips
- Internships
Key Features of Our BSc Programme

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

No Quota or GPA Requirement for any Science Major

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

Academic Advising System
- One-on-one academic advice

6901 Bachelor of Science
Science Creates Knowledge
A choice of 14 Science Majors & 7 Intensive Majors
to suit your interests and career aspirations

- Biochemistry
- Biological Sciences
- Biological Sciences (Intensive)
- Chemistry
- Chemistry (Intensive)
- Decision Analytics
- Earth System Science
- Ecology & Biodiversity
- Ecology & Biodiversity (Intensive)
- Environmental Science
- Food & Nutritional Science
- Geology
- Geology (Intensive)
- Mathematics
- Mathematics (Intensive)
- Molecular Biology & Biotechnology
- Molecular Biology & Biotechnology (Intensive)
- Physics
- Physics (Intensive)
- Risk Management
- Statistics

Develops capabilities in quantitative and logical reasoning

Comprehensive training in science

Cultivates ability to tackle novel situations and solve complex problems
**Intensive Majors**

Specialisation and intensive training make experts

- Offered alongside the regular 96-credit Majors
- Provide students with **extensive subject knowledge**
- Equip students who intend to **pursue research** in science
- Listed **in the transcript**
- Advantage at job application and when seeking **chartered status**

*Fulfill the accreditation requirements of various professional bodies in the UK*

- **Ecology & Biodiversity** (144 credits) *
- **Geology** (150 credits) *
- **Mathematics** (144 credits)
- **Biological Sciences** (144 credits) *
- **Molecular Biology & Biotechnology** (144 credits) *
- **Physics** (144 credits)
- **Chemistry** (144 credits) *

---

**6901 Bachelor of Science**
<table>
<thead>
<tr>
<th>Special Features</th>
<th>Accreditations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chemistry Major (Intensive)</strong></td>
<td><img src="image" alt="Royal Society of Chemistry Accredited Degree" /></td>
</tr>
<tr>
<td>• final year students are qualified to apply for RSC membership</td>
<td><strong>Biological Sciences Major (Intensive)</strong></td>
</tr>
<tr>
<td>• an authorised certificate to recognise students’ achievements</td>
<td><strong>Ecology &amp; Biodiversity Major (Intensive)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Molecular Biology &amp; Biotechnology Major (Intensive)</strong></td>
</tr>
<tr>
<td></td>
<td>• gain additional recognition for skills and experience</td>
</tr>
<tr>
<td><strong>Environmental Science Major</strong></td>
<td><img src="image" alt="HKIQEP" /></td>
</tr>
<tr>
<td>• Have a fast-track to professional membership (only 5 years of work experience needed after the degree)</td>
<td><strong>Geology Major (Intensive)</strong></td>
</tr>
<tr>
<td>• Be exempted from certain portions of the professional assessment</td>
<td>• the qualification is recognised internationally and in HK</td>
</tr>
<tr>
<td></td>
<td>• an accelerated route to achieve the professional qualification with completion of the programme and fulfilment of specific project requirement</td>
</tr>
<tr>
<td></td>
<td>• a certificate awarded by the Department of Earth Sciences with the authorisation by the Society to recognise their achievements</td>
</tr>
</tbody>
</table>
Your Study Plan

YEAR 1
- Explore different majors
- Find your own interests and strengths

YEAR 2
- Declare your major(s) / minor
- Prepare for your research, international exchange study or internship

YEAR 3
- International exchange study
- Internship
- Field trips
- Capstone course

YEAR 4
- Final Year Project
- Internship
- Capstone course
Articulation Pathways
Seamless articulation to widely recognised postgraduate programmes in HK and overseas

Career Path – Veterinary Doctor

To Doctor of Veterinary Medicine (DVM) at University of Melbourne (UoMelb)

- 2 degrees from the 2 universities – the HKU BSc degree and the DVM in UoMelb in as fast as 7 years

Eligibility:
- Successful completion of a minimum of 6 semesters
- Gaining 186 credits under 6901 BSc programme

Exposing yourself to different veterinary or animal-related experiences will certainly make your life in the programme easier.

Jason WONG
BSc graduate (majoring in Molecular Biology and Biotechnology), also a student in DVM programme at the University of Melbourne, Australia
Articulation Pathways

Career Path – Prepare you to devote to industries or government labs

To Taught Postgraduate (TPG) Programmes at HKU Science

4 years 6901 BSc

1 year or 1.5 years Full-time Taught Postgraduate (TPG) Programmes at HKU Science

Eligibility:
• Selected students in the Faculty who meet CGPA requirement will only need to pay 50% of the tuition fee
Minor in Science Entrepreneurship
Opening the door to entrepreneurship

Features

- Strong emphasis on practical experience, i.e. internship & capstone projects
- Mentoring offered by entrepreneurs or senior staff in industry/business
- Co-taught by other Faculties such as HKU Business School
- New courses tailor-made for this Minor

Science student’s team won Microsoft Imagine Cup World Champion
With an interactive mobile app to aid mental health care for youth

Part of the success behind the start-up is really been the Science Entrepreneurship Minor at HKU and the support we have gained through iDendron and a lot of starting support groups at HKU.

Cameron Xavier van BREDA
• BSc (Molecular Biology and Biotechnology) graduate; minor in Science Entrepreneurship
• Co-founder of Hollo
Diverse Learning Experiences

Undergraduate Research Experiences

- Overseas Research Fellowship (ORF):
  - **Examples:**
    - **North America**
      - California Institute of Technology
      - Columbia University
      - Cornell University
      - MIT
      - Stanford University
      - University of California
    - **Europe**
      - CERN
      - University of Cambridge
      - University College London
  - Summer Research Fellowship (SRF)
  - Undergraduate Research Colloquium
  - Final-year projects
  - Directed studies

Field Trips

Provide students with hands-on learning experience outside classroom

Examples of field trip destinations:
- Australia
- Canada
- Kenya
- Taiwan
- Thailand
- USA
It is all good to give it a try: since the purpose of experiential learning is all about taking trials and errors, exploring, and discovering your own interests. Stay curious and be brave.

Jiayi ZHANG
BSc (major in Mathematics)
Participant in 2021 Summer Research Fellowship scheme (SRF) and 2022 Overseas Research Fellowship scheme (ORF)

I think this research was an amazing opportunity for me to learn different skills, and I owe my deepest gratitude to my mentor.

Henry LIU
BSc (major in Physics (Intensive))
2022 SRF participant
International Exchange Studies

Over 300 partner universities in more than 40 countries:

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

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

Internships
- Enable students to apply knowledge in the workplace
- Prepare students for their careers

More than 300 internship opportunities
International Exchange

Mary YAO
BSc (major in Geology (Intensive))
Visiting student at Yale University, United States

"Going to Yale as a visiting student is such a mind-opening experience that I never could had fully anticipated."

Bonnie CHAN
BSc (major in Earth System Science)
Exchange at University of Bergen, Norway

"It is mind-blowing and precious to develop a brand new way of effective learning after this semester exchange."
The internship at Ocean Park research team allows me to apply my knowledge learned in class on dealing with real-life problems and situations, and it lets me experience the daily life of a researcher.

Samantha Leung
BSc, major in Ecology & Biodiversity (Intensive)
Internship at Ocean Park Hong Kong

No matter where you are in your career or academic journey, I think it’s really important to find genuine interest in learning, chart your own course, and as one of my professors used to say, ‘think without the box’.

Zijing WU
BSc (major in Decision Analytics; minor in Science Entrepreneurship)
Internship at Deloitte, Ekimetrics and Morgan Stanley
From Classroom to Conference room: Student Delegation Driving Climate Action at COP27

The Environmental Science major in the Bachelor of Science programme does not only give me the fundamental knowledge to fight climate change, it’s interdisciplinary nature and interconnectedness of climate change across different areas offered me a unique perspective and confidence to voice my opinions in international initiatives.

Mark CHEUNG
BSc (major in Environmental Science)
Co-Founder of Network of Environmental Student Societies (NESS)
Member of the UN Asia Pacific Youth Advisory Group on Environmental and Climate Justice
Career Prospects
Diverse career options

- Finance & Marketing
- R&D Scientist
- Biotech & Pharmaceutical Industries
- Green and Environmental Industries
- Labs
- Food Industries
- Education
- Geotechnical Industries
Occupations of Graduates

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

MAJOR OCCUPATION OF HKU SCIENCE GRADUATES

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

HKU continued to be #1 with the highest employment rate and average salary among the UGC-funded universities

HKU ranks

#10 QS World Graduate Employability Rankings 2022
Some of our Graduates’ First Employers

- Bloomberg
- Microsoft
- Morgan Stanley
- HKLAB
- SGS
- HK Observatory
- Hong Kong International Airport
- Education Bureau
- PCCW
- AIA
- KPMG
- L’Oréal
- DBS
- Hong Kong Jockey Club
Further Studies

Other than areas in science, broad range of options in non-science disciplines, including

- Business
- Computing
- Economics
- Engineering
- Materials Science
- Medical Sciences
- Pharmacology

Some of the Institutions Our Students Went for Further Studies

- Cambridge
- Caltech
- Chicago
- Columbia
- Harvard
- Illinois
- SLAC
- Stanford
- Texas
- Michigan
- MIT
- Oxford
- Princeton
- UCLA
- UC San Diego
- McGill
- SBU
Young Scientist Scheme
Early Research Experiences for Outstanding Science Students
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. Enrolment in the Frontiers of Science Honours Seminar
7. Entrance scholarship*

*Case-by-case for Non-JUPAS students
YSS participants are guaranteed to go on exchange, visiting or summer study in a top university, such as:

- The University of Chicago
- Imperial College London
- Yale University
- College of Cambridge
- University of California Berkeley
- King's College London
- Johns Hopkins University
Cambridge-Track 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

Year 1
HKU Undergraduate Curriculum
BSc(HKU), BA(Cantab), MA(Cantab)

Year 2
Cambridge Undergraduate Curriculum

Year 3
Cambridge Masters Curriculum
MSci (Cantab)
Admissions Requirements

Minimum Programme Entrance Requirements:

- **English Language** Level 3
- **Chinese Language** Level 3
- **Mathematics** Level 2
- **Citizenship and Social Development/Liberal Studies** Attained/Level 2
- **Elective Subjects** Level 3 (two subjects)

Programme Score:

\[
\text{English Language} + \text{Mathematics } \times 1.5 + \text{Best Science Elective}^\wedge \times 1.5 + \text{The BEST 2 of remaining Category A subjects/M1/M2}^\#
\]

Selection principle: **BEST 5**

*Elective subjects can be any Category A subjects and M1/M2, one of them must be a science subject (Biology, Chemistry, Combined Science, Integrated Science and Physics).

2024 Expected JUPAS admission score: **25**

Science Entrance Scholarship

<table>
<thead>
<tr>
<th>HKDSE Examination Results in one-sitting (total score in best 5 subjects in Category A or Extended Module 1 or Module 2 of Mathematics)</th>
<th>Scholarship Amount (HK$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score = 42.5</td>
<td>$70,000</td>
</tr>
<tr>
<td>Score ≥ 41</td>
<td>$60,000</td>
</tr>
<tr>
<td>Score ≥ 39</td>
<td>$50,000</td>
</tr>
<tr>
<td>Score ≥ 37</td>
<td>$40,000</td>
</tr>
<tr>
<td>Score ≥ 35</td>
<td>$20,000</td>
</tr>
<tr>
<td>Score &lt; 35 with 5** in at least 2 subjects from Biology/Chemistry/Physics/Combined Science/Integrated Science/Mathematics/M1/M2</td>
<td>$15,000</td>
</tr>
<tr>
<td>Score &lt; 35 with 5** in at least 1 subject from Biology/Chemistry/Physics/Combined Science/Integrated Science/Mathematics/M1/M2</td>
<td>$10,000</td>
</tr>
</tbody>
</table>
Students holding non HKDSE qualifications are considered individually.

- We accept students with other qualifications such as AD, HD, SAT, GCEAL, IB
- We also accept applications from students who have completed 1st year of AD/HD programme or degree programme from other universities.
2023 Admissions Statistics – Non-JUPAS
(for reference)

GCEAL
Lowest admissions score
2A* 1A

IB
Lowest admissions score
33
For more details about the programme

Enquiries

3917 2683

sci.ug.admission@hku.hk

www.scifac.hku.hk

Find us on

science.hku

hku_science

hku_science

hkufacultyofscience