

# 6901 Bachelor of Science Admissions Talk

Speaker

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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



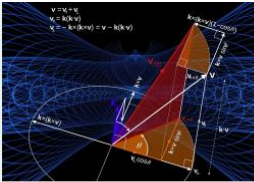
School of Biological Sciences



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

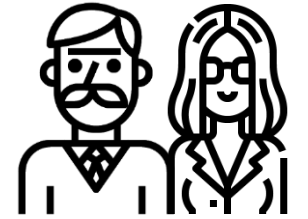
# International Environment



The Most International University  
in the World in 2023



About **40%**  
academic staff  
in the Faculty  
are from overseas



About **45%**  
non-local students  
in the Faculty





6901

# 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:



International Scientific conferences

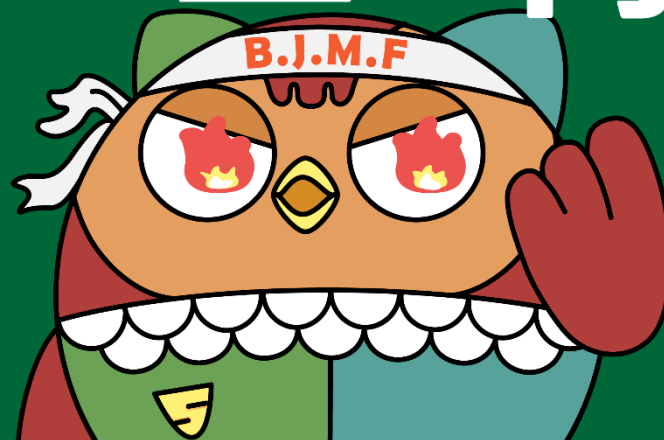


Field trips



Internships

# 博盡無悔



Worldwide exchange studies



Overseas research fellowship



Overseas summer courses

# 6901 Bachelor of Science

## 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 2<sup>nd</sup> Major or a Minor or 2 Minors in Science or non-Science disciplines

### Academic Advising System

- One-on-one academic advice

A choice of **14 Science Majors** & **7 Intensive Majors**  
to suit your interests and career aspirations

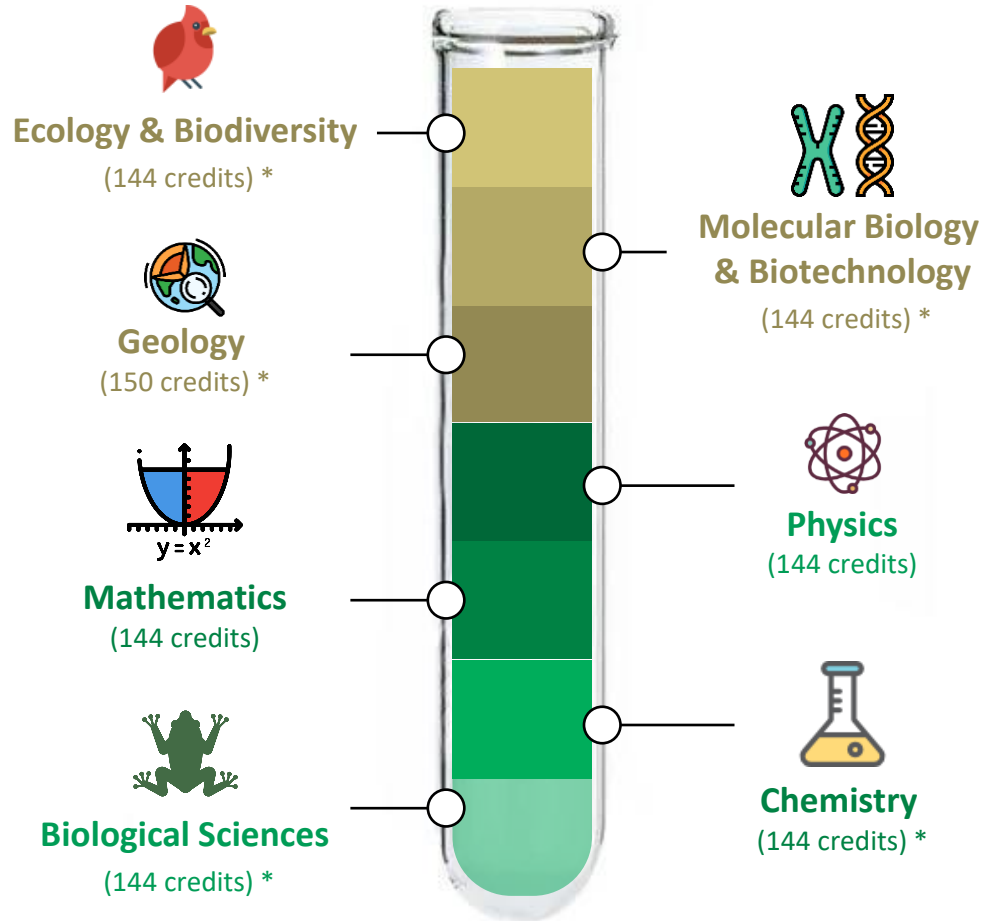
-  Biochemistry
-  Biological Sciences
-  Biological Sciences (Intensive)
-  Chemistry
-  Chemistry (Intensive)
-  Decision Analytics
-  Earth System Science
-  Ecology & Biodiversity
-  Ecology & Biodiversity (Intensive)
-  Environmental Science
-  Food & Nutritional Science

-  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



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

## 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**

## Special Features

## Accreditations



### Chemistry Major (Intensive)

- final year students are qualified to apply for RSC membership
- an authorised certificate to recognise students' achievements



Accredited Degree



### Biological Sciences Major (Intensive)



### Ecology & Biodiversity Major (Intensive)



### Molecular Biology & Biotechnology Major (Intensive)

- gain additional recognition for skills and experience



### Environmental Science Major

- 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



The Geological Society  
Accredited programme



### Geology Major (Intensive)

- the qualification is recognised internationally and in HK
- an accelerated route to achieve the professional qualification with completion of the programme and fulfilment of specific project requirement
- a certificate awarded by the Department of Earth Sciences with the authorisation by the Society to recognise their achievements

# 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:

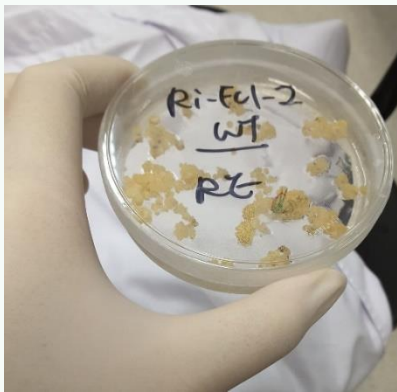
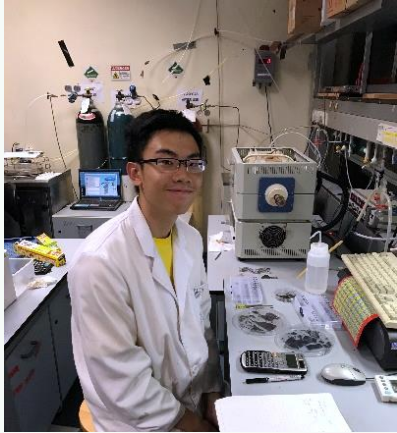
#### North America

- 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



## Intellectual Research

*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



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

**Mary YAO**

BSc (major in Geology (Intensive))

Visiting student at *Yale University, United States*



*It is mind-blowing and precious to develop a brand new way of effective learning after this semester exchange.*

**Bonnie CHAN**

BSc (major in Earth System Science)

Exchange at *University of Bergen, Norway*



*“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*



*“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*



**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

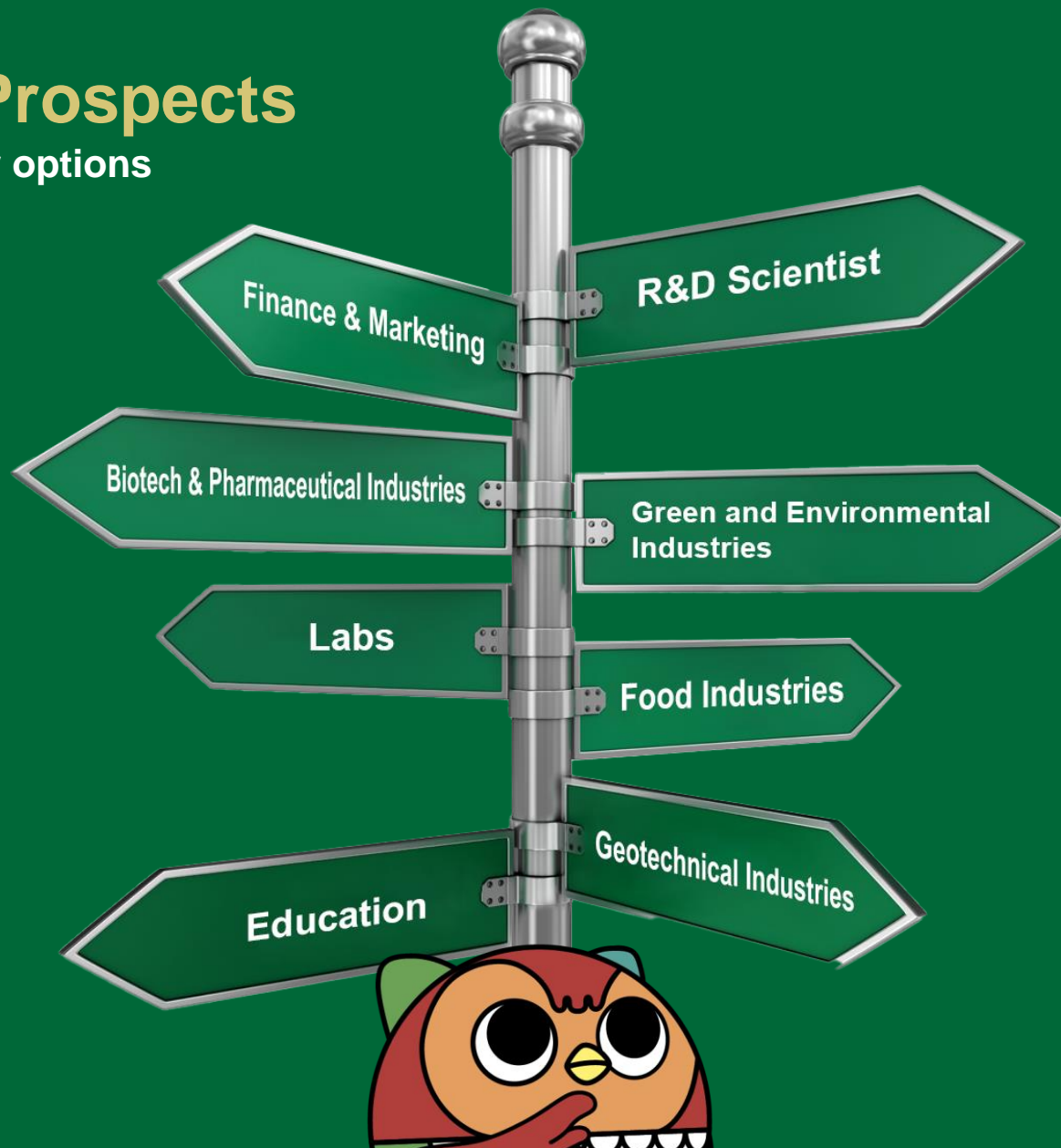
From Classroom to Conference room:  
Student Delegation Driving Climate Action at COP27

*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.*



# Career Prospects

Diverse career options

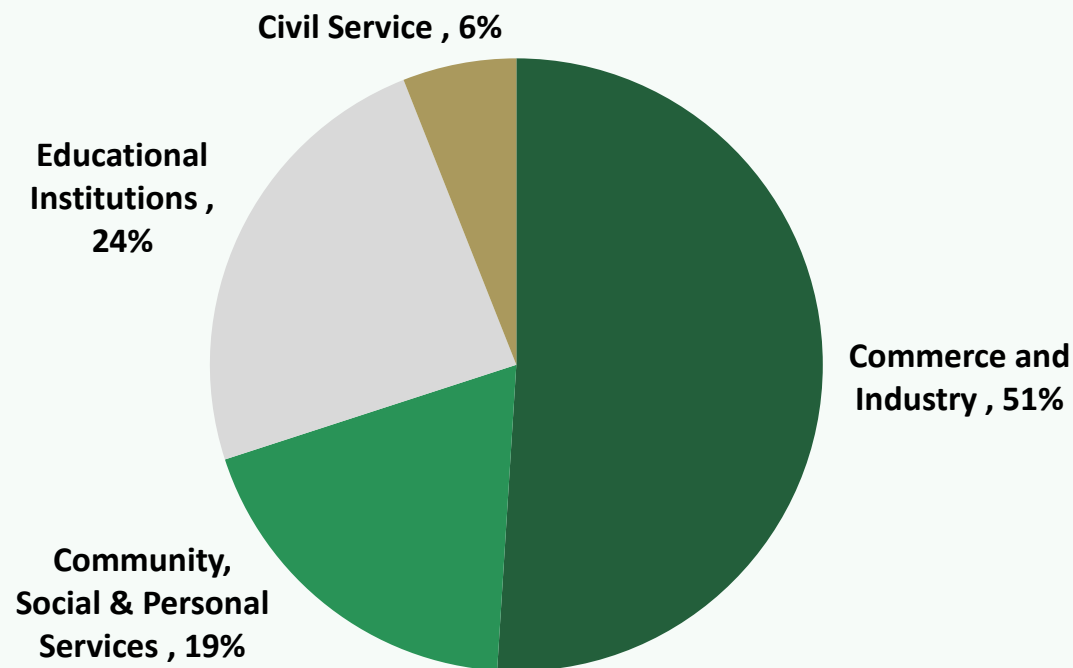




# Occupations of Graduates

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

MAJOR OCCUPATION OF HKU SCIENCE GRADUATES



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



香港天文台  
HONG KONG OBSERVATORY



香港國際機場  
HONG KONG INTERNATIONAL AIRPORT



教育局  
Education Bureau



PCCW<sup>®</sup>  
電訊盈科



L'ORÉAL  
PARIS

星展銀行  DBS



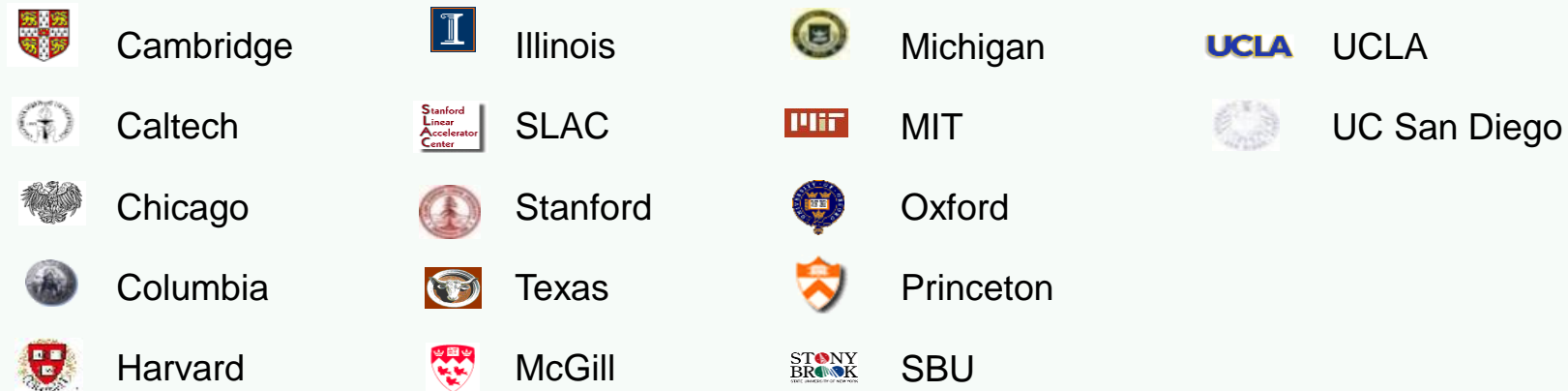
香港賽馬會  
The Hong Kong Jockey Club

# Further Studies

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



## Some of the Institutions Our Students Went for Further Studies





# Young Scientist Scheme

Early Research Experiences  
for Outstanding Science Students



Students in YSS are guaranteed with:

1



Summer Research Fellowship (SRF)

2



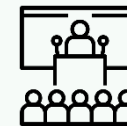
A further SRF or an Overseas Research Fellowship (ORF)

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\*

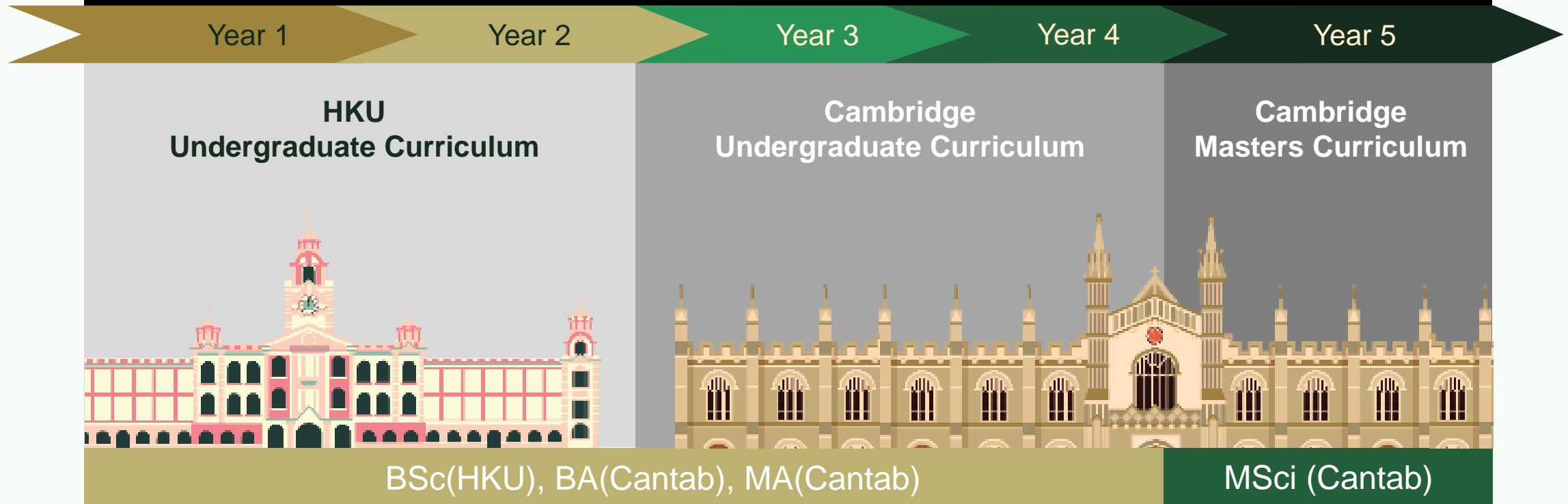
*\*Case-by-case for Non-JUPAS students*

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



# 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



# Admissions Requirements

## JUPAS applicants

### Minimum Programme Entrance Requirements:

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

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

Selection principle: **BEST 5**

### Programme Score:

English Language	+	Mathematics <b>x 1.5</b>	+	Best Science Elective <sup>^</sup> <b>x 1.5</b>	+	The BEST 2 of remaining Category A subjects/M1/M2 <sup>#</sup>
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<sup>^</sup>refers to one of the following subjects, namely Biology, Chemistry, Combined Science, Integrated Science and Physics

<sup>#</sup>Subject Weighting(s): 1.5 x Biology / Chemistry / Physics / Combined Science / Integrated Science / Mathematics Extended Part (Module 1 or 2)

2024 Expected JUPAS admission score: **25**

More about admissions requirements:



<https://bit.ly/hkuscienceadmissions>



# Science Entrance Scholarship

HKDSE Examination Results in one-sitting (total score in best 5 subjects in Category A or Extended Module 1 or Module 2 of Mathematics)	Scholarship Amount (HK\$)
Score = 42.5	\$70,000
Score $\geq$ 41	\$60,000
Score $\geq$ 39	\$50,000
Score $\geq$ 37	\$40,000
Score $\geq$ 35	\$20,000
Score < 35 with 5** in at least 2 subjects from Biology/ Chemistry/ Physics/ Combined Science/ Integrated Science/ Mathematics/ M1/ M2	\$15,000
Score < 35 with 5** in at least 1 subject from Biology/ Chemistry/ Physics/ Combined Science/ Integrated Science/ Mathematics/ M1/ M2	\$10,000

## Admissions Requirements

### Non-JUPAS applicants

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 1<sup>st</sup> 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



<https://t.ly/NxLs6>

## Enquiries



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