6688 Bachelor of Science & Master of Research 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
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
6688 SCIENCE MASTER CLASS
Double degree programme
Bachelor of Science (BSc) & Master of Research (MRes)
Learn from the Best Minds • Be Inspired by Our Science Masters
Double degree programme for elite students

Provides a fast-track of study for talented students: completing 2 degrees at an accelerated pace

Bachelor of Science

Master of Research

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

Unleashes the research potential for science-inclined students

Immerses research-aspired students to an authentic research environment and learn from Masters

Equips students to translate scientific knowledge into practical applications with wide-reaching impacts

SCIENCE CREATES KNOWLEDGE
What it covers

Learning from Science Masters
- Grand Masters through special tutorials
- Masters as academic advisors

Catering the needs of elite students
- Disciplinary-based intensive study for research-aspired students
- Ample opportunities available in our flagship Young Scientist Scheme (YSS) including:
  - Summer Research Fellowship
  - Overseas Research Fellowship
  - Exchange Study (A chance to join the Cambridge track)
  - Only available to majors in natural science disciplines

Research-oriented
- Research postgraduate courses and projects to enhance the students’ frontier scientific knowledge and research skills
Study path

University Education
(36 credits - non-credit bearing requirement)

Intensive Majors
- Biological Sciences (94 credits)
- Chemistry (94 credits)
- Ecology & Biodiversity (94 credits)
- Geology (90 credits)
- Mathematics (54 credits)
- Molecular Biology & Biotechnology (94 credits)
- Physics (94 credits)

Elective Courses
(54 - 60 credits)

Special tutorials by Grand Masters exclusive for this programme

All opportunities available in our flagship Young Scientist Scheme (YSS) including:
- Entrance Scholarship
- Cambridge trust
- Research postgraduate courses (60 credits)
- Research Ethics course (3 credits)
- Summer Research Fellowship
- Overseas Research Fellowship
- Research project (64 credits)

*Only available to Majors in Natural Sciences discipline
*Subject to initial screening, interviews and tests

Year 4 Summer Semester/ Year 5 Semester 1

Micro (63 credits)

Total no. of credits: 303

SCIENCE CREATES KNOWLEDGE

FACULTY OF SCIENCE
THE UNIVERSITY OF HONG KONG
Renowned scientists of considerable prestige as our Masters, including:

- Members of Chinese Academy of Sciences
- Members of Hong Kong’s Young Academy of Sciences
- International Member for US National Academy of Sciences
- Foreign Member of Academia Europaea
- Awardees of State Natural Science Awards
- A number of highly cited scientists
Meet our Grand Masters

Prof. Chi Ming CHE
Zhou Guangzhao Professor in Natural Sciences, Chair Professor of Chemistry

Prof. Guochun ZHAO
Chair Professor of Earth Sciences

Prof. Alice S T WONG
Associate Vice-President (Research), and Chair Professor of School of Biological Sciences

Prof. Hongjie DAI
Chair Professor of Chemistry

Prof. Ngaiming MOK
Edmund and Peggy Tse Professor of Mathematics, Director of Institute of Mathematical Research, and Chair Professor of Mathematics

Prof. Vivian W W YAM
Philip Wong Wilson Wong Professor in Chemistry and Energy, and Chair Professor of Chemistry

Prof. Wang YAO
Chair Professor of Physics

Prof. Shuang ZHANG
Interim Head and Professor Chair of Physics
Whenever you hear about the Grand Masters sharing their research journey and how they become high-profile professors, you are inspired by their devotion and mindset to conduct research. I learned a lot from the Grand Masters’ tutorials.

Kelly KWOK
BSc&MRes student (intensive major in molecular biology & biotechnology)
Research field: establishing cancer vascular immune organoids
Summer Research Fellowship at Dr Sugimura RIO’s lab

I had the privilege to have some of the most experienced researchers sharing their firsthand experience in their field of interest, and also get to know a group of like-minded and capable fellows.

Gordon WONG
BSc&MRes student (intensive major in Physics)
Research field: isolating the nebular emissions from the starlight
Summer research fellowship under the supervision of Dr J J L LIM
Accreditations
Quality assured through recognition by UK professional bodies

Chemistry Major (Intensive)
• final year students are qualified to apply for RSC membership
• an authorised certificate to recognise students’ achievements

Biological Sciences Major (Intensive)
Ecology & Biodiversity Major (Intensive)
Molecular Biology & Biotechnology Major (Intensive)
• gain additional recognition for skills and experience

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

*There is no accreditation in the fields of Mathematics and Physics.
Where the programme will lead you to

**Career & network**
- Nurtures students to pursue research in science
- Fully equips the students for further graduate studies
- Builds a consortium for: cross fertilisation of innovative ideas and facilitates multidisciplinary projects

**Transferable skills**
- Provides students with extensive subject knowledge and specialised training
- Nurtures a scientifically literate population to formulate solutions for challenges
Students who would like to:

- go onto higher degrees either in HKU or overseas
- be the future masters of science
- conduct research during their studies
- Complete 2 degrees at an accelerated pace
- obtain a diversity of experience by learning from Science Masters
- enjoy all privileges YSS has to offer
Young Scientist Scheme
Early Research Experiences for Students in 6688 programmes
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
Young Scientist Scheme
Early Research Experiences for Outstanding Science Students

Pathway of YSS

Year 1
Guidance from Research Mentors
Summer Research Fellowship

Year 2
2nd Summer Research Fellowship
or Overseas Research Fellowship

Year 3
International Exchange Study, Visiting or Summer Study

Year 4
Final Year Project
International Conference
Frontiers of Science Honours Seminar
YSS participants are guaranteed to go on exchange, visiting or summer study in a top university, such as:
In 2023, 58 students were admitted to YSS

**How to join YSS?**

**JUPAS**
6688 students are automatically accepted to YSS, no interview is required

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

HKUer or Cantab? Why not BOTH?
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 | Year 2 | Year 3 | Year 4 | Year 5
---|---|---|---|---
HKU Undergraduate Curriculum | Cambridge Undergraduate Curriculum | Cambridge Masters Curriculum
BSc(HKU), BA(Cantab), MA(Cantab) | MSci (Cantab)
Admissions requirements and other information
Tuition Fees

<table>
<thead>
<tr>
<th></th>
<th>BSc</th>
<th>MRes</th>
</tr>
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<tbody>
<tr>
<td>Local students</td>
<td>HKD 42,100 per year*</td>
<td>HKD 120,000 (full course)</td>
</tr>
<tr>
<td>Non-local students</td>
<td>HKD 182,000 per year*</td>
<td></td>
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* 4 years

Entrance Scholarship Available

Scholarships

• Entrance scholarship Scholarships will be provided to cover at least 50% of the tuition fee of the MRes programme
Science Entrance Scholarship

Scholarships are awarded to students who academically excel in HKDSE Examinations based on one-sitting.

<table>
<thead>
<tr>
<th>HKDSE Examination Results (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>
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<tr>
<td>Score ≥ 41</td>
<td>$60,000</td>
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<tr>
<td>Score ≥ 39</td>
<td>$50,000</td>
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<tr>
<td>Score ≥ 37</td>
<td>$40,000</td>
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<tr>
<td>Score ≥ 35</td>
<td>$20,000</td>
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<tr>
<td>Score &lt; 35 With 5** in at least 2 subjects from Biology/ Chemistry/ Physics/ Combined Science/ Mathematics/ M1/ M2</td>
<td>$10,000</td>
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Minimum Programme Entrance Requirements:

- **English Language**: Level 3
- **Chinese Language**: Level 3
- **Mathematics**: Level 4
- **Citizenship and Social Development/Liberal Studies**: Level 3 (2 Science or 1 Science+ M1/M2)
- **Elective Subjects**: Level 3

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

Selection principle: **BEST 5**

Programme Score:

- **English Language** + **Mathematics** + The Best 2 subjects in Science# / M1/M2

The Best remaining Category A Subject / M1 / M2*

*Subject Weighting(s): 1.2 x Biology / Chemistry / Physics / Combined Science/ Mathematics Extended Part (Module 1 or 2)

HKDSE ‘level to score’ conversion

<table>
<thead>
<tr>
<th>Level</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>5*</th>
<th>5**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5.5</td>
<td>7</td>
<td>8.5</td>
</tr>
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2024 Expected JUPAS admission score: **31**
Non-JUPAS applicants will be considered on a case-by-case basis. In general, excellent results in Mathematics and Science subjects are required.

2023 Admissions Statistics – Non-JUPAS
(for reference)

GCEAL
Lowest admissions score
4A*

IB
Lowest admissions score
41
Interview

Interview is an integral part of the admissions process. It serves to exhibit a different dimension of your ability and facilitate our deeper understanding on your suitability for this programme. Only Band A applicants would be invited for interview.

JUPAS tips

You are strongly encouraged to put 6688 Science Master Class as your Band A1 choice in your JUPAS application to maximise your chances of being admitted.

Quota

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