HKU–Cambridge Undergraduate Recruitment Scheme (Natural Sciences)

**Curriculum**
Selected students will study a broad range of Science courses in Years 1 and 2, in order to best prepare themselves for their Cambridge studies.

**Entrance Exams**
- Entrance Exam
- Extended Module M1 or M2 in Mathematics
- HKDSE score of 35 or above in their best 5 HKDSE subjects

**Requirements for JUPAS students:**
- Non-JUPAS applicants will be considered on a case-by-case basis.
- Higher level Mathematics is required for IB students. For GCEAL students, Mathematics and Further Mathematics are required. Excellent results in Mathematics are required for students with other qualifications. Selected applicants will be invited to enroll in YSS/Cambridge-track. No application is necessary.

**Admissions of Students on the Cambridge-track to Cambridge**
Students NOT taking Master's Degree at Cambridge will take extra research internships at HKU to fulfill the University's graduation requirements.

**Science in Cambridge pioneering in the world:**
- Life Sciences (THE, 2023)
- Physical Sciences (THE, 2023)
- Life Sciences & Medicine (QS, 2023)
- Biotechnology (QS, 2023)
- Natural Sciences (THE, 2023)

**Why not BOTH?**
Earning 3-4 degrees upon successful completion of 2 years of study at HKU and 2-3 years of study at Cambridge

**THE TRACK**
A joint recruitment scheme that allows selected YSS students to pursue studies in two renowned universities.

**Admissions to the Cambridge-track**
- Students taking Master's Degree at Cambridge.
- Conditional offer.
- Satisfying GPA requirements.

**Remarks:**
- 28% of YSS population.
- JUPAS Band A applicants of 6901 Bachelor of Science and 6688 Science Master.
- Students NOT taking Master's Degree at Cambridge will take extra research internships at HKU to fulfill the University's graduation requirements.

**How to Enroll in the Cambridge-track**
- 1. For HKU students, the Admissions Team will inform you of the opportunities and requirements after the interview.
- 2. Students who do NOT opt for a Master's degree at Cambridge will take extra research internships at HKU to fulfill the University's graduation requirements.
- 3. Students will pay HKU fees and Cambridge fees for their study at HKU and Cambridge, respectively.
- 5. Students NOT taking Master's Degree at Cambridge will take extra research internships at HKU to fulfill the University's graduation requirements.

**Study Path for YSS Students in the Cambridge Scheme (2+2+1) mode**

**HKU**
- **YEAR 1**
  - Available for students majoring in:
  - **YEAR 2**
  - Cambridge Undergraduate Degree
  - **YEAR 3**
  - Cambridge Undergraduate Degree
  - **YEAR 4**
  - Cambridge Undergraduate Degree
  - **YEAR 5**
  - Cambridge Master’s Degree

**Cambridge**
- **YEAR 1**
  - **YEAR 2**
  - **YEAR 3**
  - **YEAR 4**
  - **YEAR 5**

**SPECIAL FEATURE**
HKU–Cambridge Undergraduate Recruitment Scheme (Natural Sciences)

**Cambridge Track for Selected YSS Participants in Natural Sciences Disciplines**

**Cambridge**
- **YEAR 1**
  - **YEAR 2**
  - **YEAR 3**
  - **YEAR 4**
  - **YEAR 5**

**HKU or Cantab?**

Selected students can follow either of the paths below and attain degrees from both HKU & Cambridge in 4-5 years:

1. **Regular major** will be listed on transcript when conferring BSc(HKU) to 6688 students.
2. Students NOT taking Master's Degree at Cambridge will take extra research internships at HKU to fulfill the University's graduation requirements.

**HKU and Cambridge**
- **YEAR 1**
  - **YEAR 2**
  - **YEAR 3**
  - **YEAR 4**
  - **YEAR 5**

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What is Young Scientist Scheme (YSS) all about?

- BSc alumna (Double major in Statistics & Finance)
- Visiting student at Yale University in 2019-20

The YSS provides a great opportunity for undergraduate students to have hands-on experience and training in research. Previous YSS students have enjoyed working in our laboratory on projects related to Astrophysics, and molecular functional materials. The YSS will enable students to have first-hand and early experience in getting to know what frontier research is all about, which will be extremely rewarding for the years to come.

Professor Vivian W W Y AM

As a strong and research-oriented Faculty, the Faculty of Science is committed to providing our outstanding students with ample early research experiences in 6901 Bachelor of Science and 6688 Science Master Class programmes.

A wide spectrum of scientific research areas:

- Biological Sciences
- Chemistry
- Earth Sciences
- Mathematics
- Physics
- Statistics and Actuarial Science

Examples of 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
- Imperial College London
- King’s College London
- University of Oxford

Examples of universities for international exchange, visiting or summer study

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

Europe
- University of Cambridge
- Imperial College London
- King’s College London
- University of Oxford

What our YSS research mentor says:

- Lily LI

As a student enthusiastic about pursuing academic research, I was accepted to YSS. No interview is required.

1) The SRF was an extremely rewarding experience for me. Having spent more than two months in the lab, I found that carrying out research was both a stimulating and challenging experience. The experience helped me gain valuable experience in scientific research.

2) The SRF provided me with the opportunity to work with a small team with whom I could collaborate and learn.

3) The SRF helped me appreciate and get to know research in science.

I realised that research is certainly a lot, a lot of hard thinking that has to be investigated. I always had the opportunity to discuss problems and results with my guide, so I felt that I was well-prepared and equipped to deal with challenges. I was also glad to meet very nice and helpful people in the lab, as well as acquire technical and time-management skills, which have helped me in my future.

By having more time and effort invested in the lab, I was able to gain a deeper understanding of the subject. The experience helped me in my future career.

Lily LI

Students in YSS are guaranteed with:

- Enrolment in our Faculty’s Summer Research Fellowship (SRF) Scheme to conduct research under the supervision of our professors in the first summer.
- A Further SRF or Overseas Research Fellowship (ORF) Scheme in a foreign institution in a subsequent year.
- An annual stipend for research programme.
- A chance to attend an international scientific conference on frontier scientific research.
- An individual guidance from a research mentor from the start of the undergraduate study.
- Enrolment in our Frontiers of Science Master Class to learn how the award-winning professors solve their research problems.

Who can join YSS?

All JUPAS students admitted to 6901 Bachelor of Science programme with a total score of 36 or above, and in the three priority S6688 Science Master Class programmes are automatically accepted to YSS. No interview is required.

How to join YSS:

Students who satisfy the following academic requirements can benefit significantly from participating in the Summer Research Fellowship (SRF) of the Young Scientist Scheme.

- Students in the Academic Year 2020-21 who plan to attend 6901 Bachelor of Science and 6688 Science Master Class programmes.
- Students with a total score of 36 or above in their best two subjects
- Students with a score of 35 or above in their best subject

Selected Non-JUPAS applicants will be invited to enrol in YSS.

All in all, SRF definitely strengthened my determination to conduct actual research. It enabled me to spend more than two months in the lab, to acquire technical and time-management skills, and to learn to make and adapt to these problems and results for possible applications, and to find a way to get over any unexpected difficulties.

Conducting actual research required the ability to integrate procedures and results may always go the way as it was planned or hypothesised. It is therefore essential to learn to adapt to these problems and results for possible applications, and to find a way to get over any unexpected difficulties. Every new decision made prompted me to contemplate my expertise, and every piece of information learnt enabled me to build a future better suited to my aims.

Jane Foster

**Students in YSS are considered on a case-by-case basis.**

**Category A Core and Elective Subjects and Extended Module or Modulo of Mathematics**

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<thead>
<tr>
<th>Level</th>
<th>5+</th>
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<th>4</th>
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