Undergraduate Programme 2017-18
6901 Bachelor of Science
The talk will introduce:

- HKU Faculty of Science
- Science undergraduate programmes
- 6901 BSc programme
  - Key features
  - Curriculum structure
- Diverse learning experiences
- Young Scientist Scheme (YSS) for Outstanding Science Students
- Career prospects
- Admission requirements
Six Departments / School

- Chemistry
- Earth Sciences
- Biological Sciences
- Mathematics
- Statistics & Actuarial Science
- Physics
QS University Rankings: Asia 2016
by Quacquarelli Symonds
■ 1st National University of Singapore
■ 2nd The University of Hong Kong
■ 4th University A in HK
■ 8th University B in HK

Asia University Rankings 2016
by Times Higher Education
■ 1st National University of Singapore
■ 2nd Nanyang Technological University
■ 3rd Peking University
■ 4th The University of Hong Kong
■ 6th University A in HK
■ 13th University B in HK
QS World University Rankings by Faculty 2015/16 – **Natural Science**
by Quacquarelli Symonds

15th The University of Hong Kong
- 29th University A in HK
- 101st University B in HK

16.4% of professoriate staff are the world's top 1% scholars according to ISI’s Essential Science Indicators 2015
About 40% academic staff are from overseas
International collaborations
Diverse origins and cultures of students

Total no. of academic staff: 152
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

Graduates equipped with analytical skills and numerical sense

Essentially 100% employment rate (inclusive of further studies) in the past decade
Science Undergraduate Programmes

6729 BSc(AC)
BSc in Actuarial Science
4-year Programme

6901 BSc
Bachelor of Science
4-year Programme

6119 BEd & BSc
Bachelor of Education & Bachelor of Science
5-year Double Degree Programme
6901 Bachelor of Science Programme

- Key features
- Curriculum structure
6901 Bachelor of Science Programme

- Developing students’ capabilities in quantitative and logical reasoning
- Cultivating students’ ability to tackle novel situations and solve intricate problems

Comprehensive training in science

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

# Includes an option to follow the accredited Royal Society Chemistry programme

* Includes an option to follow the accredited Geology programme
Key Features of 6901 BSc curriculum

- One entry in application for a choice of **16 Majors**
- Up to 2 years time to choose a Major
- Flexibility in changing Majors

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

Simple and Flexible

No Quota for any Science Major

Academic Advising System

One-on-one academic advice
BSc Curriculum Structure (240 Credits)

Forty 6-credit courses spanning over 4 years of study

- UNIVERSITY EDUCATION
  - Language Courses (54 credits)
  - Common Core Courses (12 credits)

- SCIENCE FOUNDATION COURSES

- Major(s), Minor(s), Electives (168 credits)

- CAPSTONE LEARNING (6 credits)
Diverse Learning Experiences
Diverse Learning Experiences

Ample Learning Opportunities
- Enhance understanding of and sensitivity to different cultures
- Nurture broader perspectives
- Stimulate novel idea

International Exchange Studies

Undergraduate Research Experiences

Field Trips

Internships
166 BSc students travelled abroad for international exchange in 2015-16

Over 200 partner universities, including:

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

Europe
- University of Cambridge
- Imperial College London
- University of Oxford
Undergraduate Research Experiences

- **Overseas Research Fellowship (ORF)**
- **Examples of institutes for ORF:**
  - North America
    - California Institute of Technology
    - Columbia University
    - Cornell University
    - MIT
    - Stanford University
    - University of California at Berkeley
    - University of California at Los Angeles
  - 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
Enable students to apply knowledge in the workplace

Prepare students for their careers

Examples of internship opportunities:
- Government bodies
- Scientific laboratories
- Non-government agencies/NGOs
- Commercial companies
Young Scientist Scheme (YSS)
for Outstanding Science Students
Provides ample early research experiences for outstanding undergraduate students.
YSS — Early Research Experiences for Outstanding Students

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

Students in YSS are guaranteed with:

5. A research mentor
6. Enrollment in the Frontiers of Science Honours Seminar
7. Stipends for research activities
YSS — Pathway to Pursue Research
YSS participants are guaranteed to go on exchange, visiting or summer study in a top university such as

University Partners for YSS

North America

UNIVERSITY OF CALIFORNIA
Yale UNIVERSITY
Johns Hopkins UNIVERSITY
COLUMBIA UNIVERSITY
THE UNIVERSITY OF CHICAGO

Europe

UNIVERSITY OF CAMBRIDGE
Imperial College London
KING'S College LONDON
Who are eligible to join YSS?

In 2016, 27 students were admitted to YSS.

**JUPAS**
- Best 5 HKDSE Category A subjects ≥ 31 scores
  - automatically accepted to YSS
  - no interview is necessary

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

*Including Category A subjects and M1/M2*
Professional Preparation Programme (PPP)

- Networking and alumni sharing
- Increasing self awareness and discovering own strength
- Providing most update market trend and job information

- Practising key job hunting skills
- Enhancing fundamental work skills
- Coaching by experienced and professional trainers

Making intelligent career choice

Enhancing employability
Broad Further Study Options

On top of pursuing further study in science disciplines, our graduates also pursue further studies in other disciplines, such as:

- business
- computing
- economics
- engineering
- materials sciences
- medical sciences
- pharmacology

18% of Science graduates in 2014 pursued further studies

6901 BSc
Bachelor of Science

Some of the institutions our students went for further studies:
- Cambridge
- Caltech
- Chicago
- Columbia
- Harvard
- Illinois
- McGill
- Michigan
- MIT
- Oxford
- Princeton
- SBU
- SLAC
- Stanford
- Texas
- UCLA
- UC San Diego
Wide Career Prospects

- Finance
- Management
- Biotech and Pharmaceutical Industries
- Food Industries
- Geotechnical Industries
- Green and Environmental Industries
- Engineering
- Labs
- Computer Industries
- Civil Services
- R&D Scientist; Education; Technical Marketing; etc.

6901 BSc Programme
Admission Requirements
HKU General Admission Requirements

Minimum Programme Entrance Requirements

6901 BSc

6119 BEd & BSc

* Elective subjects can be any Category A subject, one of them must be a Science subject
6901 BSc Programme

Admission Principle – Best 5

- English
- Mathematics/ M1/M2
- Best Science Elective
- The BEST 2 of other subjects

- Heavier weight for Science Electives, Math and M1/M2
- Aptitude test to differentiate borderline students
JUPAS Admission Scores

Total score of best 5 HKDSE subjects

2016

6901 BSc
Score: 22 – 33

6729 BSc(AC)
Score: 27 – 35

6119 BEd & BSc
Score: 22-30

The HKDSE ‘level to score’ scale

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2016 JUPAS Admission Scores of Science Programmes

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Average score of best 5 HKDSE subjects

- BSc Programme in University A: 4.34
- BSc Programme in University B: 4.70
- HKU 6901 BSc Programme: 5.07
2016 Non-JUPAS Admission Data

6901 BSc

Lowest admission score of IB

6901 BSc
35

6729 BSc(AC)
39

6119 BEd & BSc
37

Lowest admission score of GCEAL

6901 BSc
3A

6729 BSc(AC)
3A

We accept students with other qualifications such as AD, HD, SAT.

We also accept applications from students who have completed 1st year of AD/HD programme or degree programme from other universities.
2016 Admission Figures

Total no. of students admitted: 447

- 6901 BSc
  - JUPAS
  - Non-JUPAS (Local students)
  - Non-JUPAS (Mainland)
  - Non-JUPAS (International students from 12 countries)

- Total no. of students admitted: 447

- 292 (65.3%)
- 51 (11.4%)
- 46 (10.3%)
- 58 (13.0%)
Science Entrance Scholarships

HKDSE Results
Total score in the best 5 subjects (including M1 or M2)

- Score of 35 $40,000
- Score of 34 $35,000
- Score of 33 $30,000
- Score of 32 $25,000
- Score of 31 $20,000

Note: The results are based on one sitting only. Students must NOT BE HKDSE REPEATERS and must fulfill the minimum University entrance requirements.

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Contacts for Further Information

3917-2683
www.scifac.hku.hk
science@hku.hk
THANK YOU