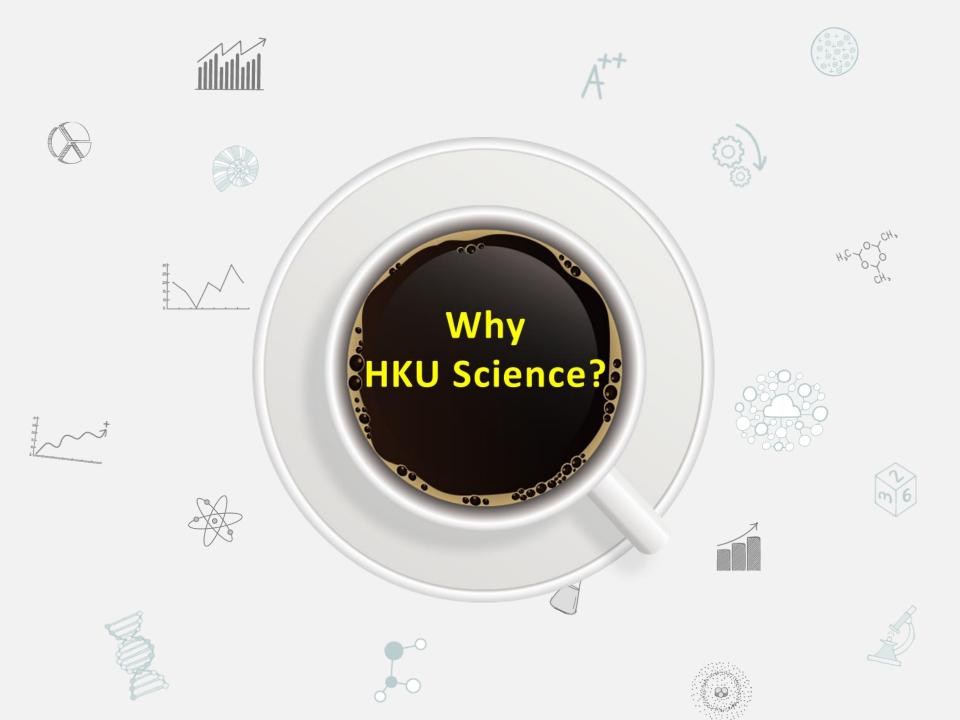




New Initiatives in 6901 BSc Programme & Young Scientist Scheme 2019







High University Rankings



QS World University Rankings 2019

among the
Universities in
Hong Kong

#25
In the world

QS Asian University Rankings 2019

#2

Top-ranked Scientists

(Clarivate Analytics' Essential Science Indicators 2018)

16% of professoriate staff

are the world's top 1% scholars





Times Higher Education
World University Rankings 2019

among the
Universities in
Hong Kong

among the
Universities in
Asia

#36



International Environment

About 40% academic staff are from overseas

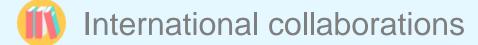


The International Student Rank 2018

by THE World University Rankings

#22 in the world

#1
in Asia









Global Experience

Committed to nurturing students as global citizens





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



A glance of undergraduate programmes in the Faculty of Science

























Empowers scientific intellectuals to formulate solutions to society's challenges





















6901 Bachelor of Science Programme

Simple and Flexible

- One entry in application for a choice of 14 Majors and 4 Intensive Majors
- Up to 2 years time to choose a Major
- Flexibility in changing Majors

Key Features of Our BSc Curriculum

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

No Quota for Any Science Major

Academic Advising System

· One-on-one academic advice



















New Initiatives in 6901 BSc

































Specialisation and intensive training make experts



















6901

Bachelor of Science BSc

Specialisation and intensive training make experts

The Faculty has adapted four Majors, which were accredited by UK professional bodies, into 4 NEW Intensive Majors, alongside with the regular 96-credit Majors.



4 NEW Intensive Majors in addition to 14 Science Majors

- Chemistry (Intensive) (144 credits)
- Ecology & Biodiversity Major (Intensive) (144 credits)
- Geology (Intensive) (150 credits)
- Molecular Biology & Biotechnology (Intensive) (144 credits)

More intensive majors will be offered subsequently.

Regular 96-credit Majors

Biochemistry

Biological Sciences

Chemistry

Decision Analytics

Earth System Sciences

Ecology and Biodiversity

Environmental Science

Food & Nutritional Science

Geology

Mathematics

Molecular Biology & Biotechnology

Physics

Risk Management

Statistics







Specialisation and intensive training make experts

Gain extensive subject knowledge



Offered alongside with the regular 96-credit Majors



Enjoy an advantage at job application



Fulfill the accreditation requirements of various royal societies in UK

Equip students who intend to pursue research in science







Specialisation and intensive training make experts

Curriculum structure for BSc (Intensive Majors)

Spanning over 4 years of full-time study (240 Credits)

UNIVERSITY EDUCATION

Language Courses
Common Core Courses

(54 credits)



INTENSIVE SCIENCE MAJOR

Science Foundation Courses Disciplinary Courses Capstone Course

(144 - 150 credits)



MINOR / ELECTIVES

(36 - 42 credits)

















Quality assured through recognition by international professional bodies



















Quality assured through recognition by international professional bodies





have been conferred the accreditation from

Royal Society of Biology, UK



> gain additional recognition for skills and experience

> learn the latest development in life sciences











Students completing specified geology courses will receive an accredited degree from

The Geological Society, UK

- > The qualification is recognised internationally and in HK
- > an accelerated route to achieve the professional qualification



Biology

Chemistry Major (Intensive)

have been conferred the accreditation from

Royal Society of Chemistry (RSC), UK

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





















Opening the doors to entrepreneurship

















Highlights of the Minor:





Capstone project



Mentoring offered by entrepreneurs or senior staff in industry/business



Co-taught by other Faculties such as Faculty of Business and **Economics**



New courses tailor-made for this Minor and related courses offered by other Faculties



Opening the doors to entrepreneurship

Broadening students' horizon in entrepreneurship

Connecting academic knowledge with the real world

> **Bringing** huge insights via critical analysis of enterprises



















Seamless articulation to widely recognised postgraduate programmes in HK and overseas

















Seamless articulation to widely recognised postgraduate programmes



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

- Selected students, upon successful completion of a minimum of 6 semesters and gaining 186 credits under BSc 6901 programme, could enroll in DVM at UoMelb.
- ◆ Graduates will be conferred 2 degrees from the 2 universities the HKU BSc degree and the DVM in UoMelb in no less than 7 years.

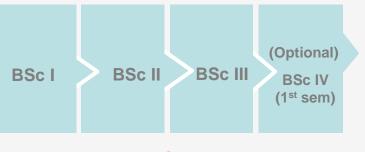


New articulation pathway for pursuing a career in veterinary



HKU 6901 BSc

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



Bachelor of Science at HKU



DVM degree at the University DVM₂ DVM3 DVM4 of Melbourne (UoMelb)

HKU 6901 BSc degree

A minimum of 7 years



Seamless articulation to widely recognised postgraduate programmes



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

Eligible majors



Ecology & Biodiversity



Food & Nutritional Science



Biotechnology

Prerequisite for application Gain 186 credits

upon successful completion of a minimum of 6 semesters

Quota

A maximum of 5 places annually

Scholarship

to partially cover the tuition fee in the first year of study at **UoMelb**

About DVM at UoMelb



QS World University Rankings 2018 by Subject - Veterinary Science

#15

Graduates will be able to

- register as a veterinary surgeon and practise in HK
- practise as a veterinarian in many countries such as Australia, UK and North **America**







(Australia)









Seamless articulation to widely recognised postgraduate programmes





To Taught Postgraduate Programmes at HKU Science

6901 BSc

6729 BSc(AC)

6224 BASc(Applied AI)

(4 years)



MSc / Master of Statistics programme (1 year)

MSc in Data Science programme (1.5 year)

TPg Programmes include:

MSc in the field of Food Safety and Toxicology

MSc in the field of Applied Geosciences

MSc in Environmental Management

Master of Statistics

MSc in the field of Food Industry: Management and Marketing

MSc in Data Science

Eligibility:

With a CGPA of 3.5 at graduation and fulfillment of the respective admissions requirements





Seamless articulation to widely recognised postgraduate programmes



222

To the Master of Science in Biotechnology at Northeastern University

HKU Science graduates with a **GPA of 3.2 or above** are eligible for direct admission to the programme





1st year

May complete the course work online

2nd year

Transfer to Northeastern University to complete the remaining studies



NEW INITIATIVES

in 6901 BSc programme



Specialisation and intensive training make experts



- Chemistry (Intensive)
- Ecology & Biodiversity (Intensive)
 - Geology (Intensive)
 - Molecular Biology & Biotechnology (Intensive)





NEW INITIATIVES in 6901 BSc programme

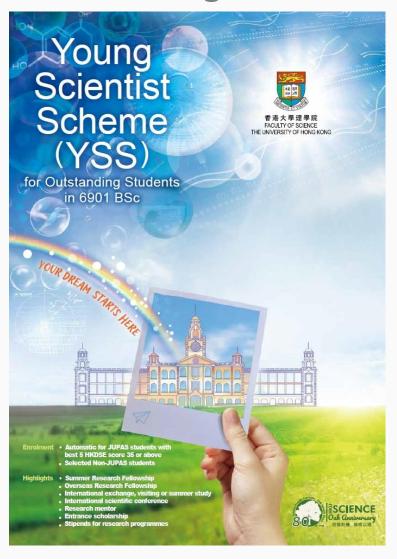






Young Scientist Scheme (YSS)

Early Research Experiences for Outstanding Science Students



YSS — Early Research Experiences for Outstanding Students

Students in YSS are guaranteed with:



A further SRF or an Overseas
Research
Fellowship (ORF)

International exchange, visiting or summer study



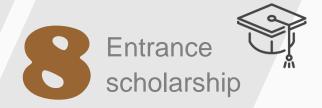
Attendance to an international scientific conference



Enrollment in the Frontiers of Science Honours Seminar

7 re

Stipends for research activities



Pathway of YSS

YEAR 4

Final Year Project

International Conference

Frontiers of Science **Honours Seminar**





UNIVED

International Exchange Study, Visiting or **Summer Study**



YEAR 2

2nd Summer Research Fellowship or **Overseas Research** Fellowship



YEAR 1

Guidance from **Research Mentor**

Summer Research Fellowship



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



How to join YSS?

In 2018, **33 students**

were admitted to YSS

Non-JUPAS



JUPAS

Best 5 HKDSE
Category A subjects /
M1 / M2

≥ 35 scores

 automatically accepted to YSS

no interview is necessar

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

The HKDSE 'level to score' conversion

Category A: Core and Elective Subjects and Extended Module 1 or Module 2 of Mathematics								
Level	1	2	3	4	5	5*	5**	
Score	1	2	3	4	5.5	7	8.5	

6901 BSc students not admitted to YSS on entry still:

- · have a second chance to enroll in YSS
- could compete for SRF, ORF and/or international exchange during their study



































International Exchange Studies

Around 300 partner universities in more than 40 countries, including:

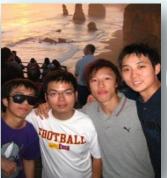
North America

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

Europe

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





284 BSc students
travelled abroad for
international exchange
in 2017-18

Undergraduate Research Experiences

Ample undergraduate research opportunities are offered by the Faculty

Overseas Research Fellowship (ORF)

Examples:

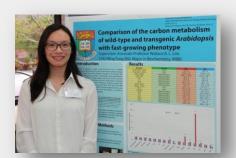
North America

- 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







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

More than
126 internship
opportunities
were offered in 2017-18







Broad Further Study Options



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



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

Some of the institutions our students went for further studies

Cambridge

McGill

SLAC

Caltech

Michigan

Stanford

Chicago

MIT

Texas

Columbia

Oxford

UCLA UCLA

Harvard

Princeton

UC San Diego

Illinois

STONY SBU

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

Wide Career Prospects

- Many of our graduates are holding positions that demand scientific expertise
- They are also preferred by employers because of their numerical analytical skills and logical thinking



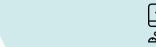
Finance



Labs



Management



Computer Industries



Biotech & **Pharmaceutical Industries**



Engineering



Green and Environmental Industries



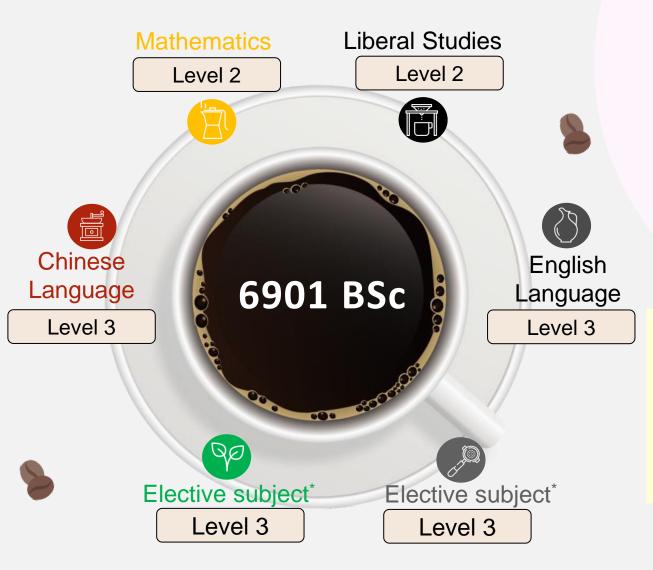
Food **Industries**

R&D Scientist; **Education**: **Technical** Marketing; etc.

and more



JUPAS Applicants Admissions Requirements



2019 Admission Quota 336#

(JUPAS + Local Non-JUPAS)

(Separate quota for mainland and international students)

Subject to confirmation



Heavier weight for Science Electives, Math and M1/M2



Admissions Formula for 6901 BSc (For JUPAS)

Selection principle: BEST 5

JUPAS



DSE Subjects



- Science elective subjects
 (Biology, Chemistry, Physics, Combined Science or Integrated Science)
- Mathematics
- Extended module 1 or 2 in Mathematics



English language

Weighting







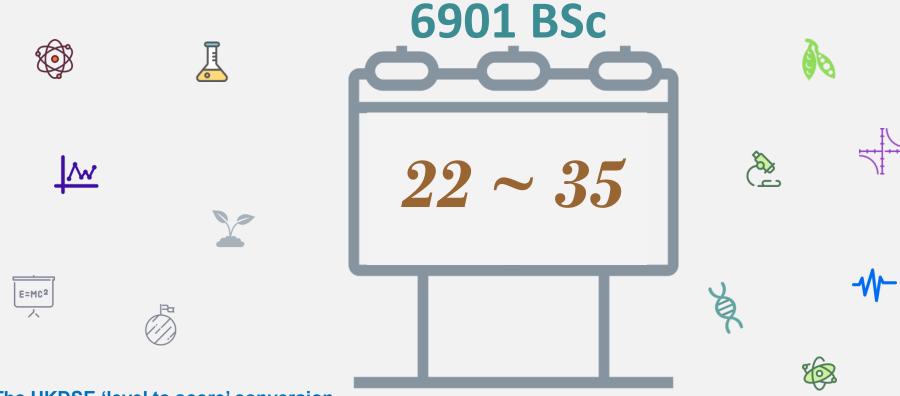
Non-JUPAS

Students holding non HKDSE qualifications are considered individually.



2018 JUPAS Admissions Scores

Total score of **best 5** HKDSE subjects among the 6901 intakes



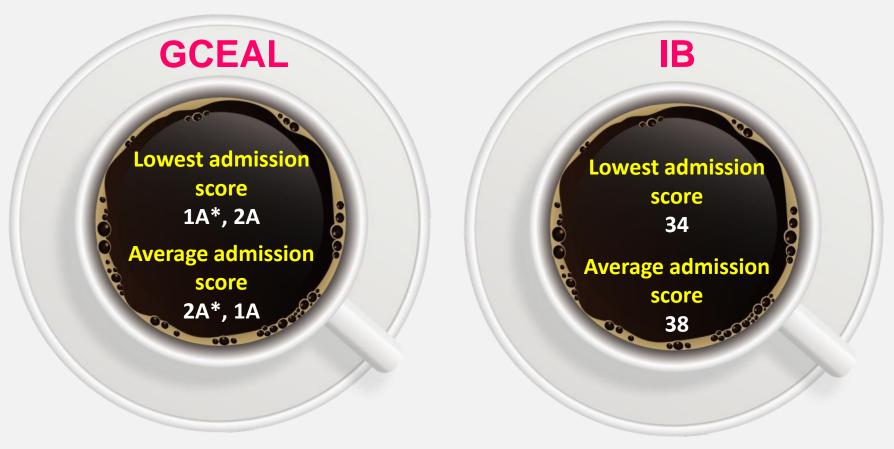
The HKDSE 'level to score' conversion

Admission Year	HKDSE Level	1	2	3	4	5	5*	5**
2018	Conversion under the existing system	1	2	3	4	5	6	7
2019	Conversion under the New Bonus Points system	1	2	3	4	5.5	7	8.5



2018 Non-JUPAS Admissions Scores

6901 BSc



- 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.

Science Entrance Scholarships for 6901 BSc Students

HKDSE Results

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



Note:

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

Category A: Core and Elective Subjects and Extended Module 1 or Module 2 of Mathematics									
Level	1	2	3	4	5	5*	5**		
Score	1	2	3	4	5.5	7	8.5		





Contacts for Further Information







