Learn from the Best Minds
Be Inspired by our Science Masters

Incubating the next generation of scientists

Double Degree Programme
Bachelor of Science & Master of Research

6688 SCIENCE MASTER CLASS
2022-23

Bachelor of Science (BSc) &
Master of Research (MRes)
Is the Programme for You

Why this Programme

“...We understand the learning pace and needs of highly able students might be different – they are quick learners who can usually accomplish more than expected, which a standard pedagogical routine might not be an ideal option for them.”

This elite programme:

- Provides a fast-track of study for talented students: completing 2 degrees at an accelerated pace
- caters specifically to the needs of science-inclined students, with more learning opportunities, intensive training and inspirations
- allows research-aspiried students to immerse themselves in an authentic research environment and learn from researchers with diverse backgrounds
- incubates the next generation of dynamic scientists who are able to translate scientific knowledge into practical applications with far- and wide-reaching impacts

World-class Rankings of HKU

Times Higher Education (THE) 2021

#1 Most international universities in the world

#30 World University Rankings 2021

#4 Asia University Rankings 2021

#41 Impact Rankings 2020

Quacquarelli Symonds (QS)

#22 World University Rankings 2022

#4 Asia University Rankings 2021

EMINENT SUBJECT RANKINGS

QS World University Rankings by Subject 2021

#75 Biological Sciences

#52 Chemistry

#49 Earth & Marine Sciences

#44 Environmental Sciences

#61 Materials Science

#53 Mathematics

#66 Physics & Astronomy

#48 Statistics & Operational Research

Top-notch Scientists in the Faculty

Clarivate Analytics’ Essential Science Indicators 2020

16.5% of our professorial staff are the world’s Top 1% Highly Cited Researchers

International Environment

About 40% academic staff in the Faculty are from overseas

What the Programme Covers

Fast-track for completing 2 degrees

Bachelor of Science + Master of Research

Remarks: Students in the programme have to maintain a high GPA in order to remain in this double degree programme or switch to the BBS/BSc programme.

Learning from Science Masters

Grand Masters through special tutorials

Masters as academic advisers

Catering the needs of elite students

disciplinary-based intensive study for research-aspiried students

ample opportunities available in our flagship Young Scientist Scheme (YSS) including:

- Summer Research Fellowship
- Overseas Research Fellowship
- Exchange Study
- Entrance Scholarship
- Be included in the Cambridge-track*

* only available in majors in Natural Sciences disciplines

Research-oriented

Research postgraduate courses and research projects to enhance the students’ frontier scientific knowledge and research skills

Clarivate Analytics’ Essential Science Indicators 2020
Where this Programme will lead you to

Professional recognition
5 Intensive Majors* fulfill the accreditation requirements of various societies in the UK

Career development & network
- Nurtures students who intend to pursue research in science
- After completing the BSc and the MRes, students will be fully equipped to further pursue graduate studies in prominent university overseas or in HKU
- Builds a consortium of young researchers for cross fertilisation of innovative ideas and facilitates possible multidisciplinary projects

Transferable skills
- Provides students with extensive subject knowledge and specialised training
- Nurtures a scientifically literate population to formulate solutions for research challenges

Who should Join this Programme
Students who would like to:
- be future masters of science
- go onto higher degrees either in HKU or elsewhere
- obtain a diversity of experience by learning from the Grand Masters of the Faculty of Science
- conduct research during both their undergraduate and master level studies
- complete 2 degrees at an accelerated pace
- enjoy all privileges YSS has to offer

*There is no accreditation available in the fields of Mathematics and Physics
Skills alone would not make one succeed. It is the attitude, visions and efforts that set one's direction. Learn from the wise and broaden your horizon.

We have renowned scientists including:
- Members of Chinese Academy of Sciences, Hong Kong Academy of Sciences, and Hong Kong Young Academy of Sciences;
- International Members of National Academy of Sciences USA and a Foreign Member of Academia Europaea;
- Awardees of International/National Awards/Prizes
- A number of highly cited scientists

Get to know our Grand Masters:

Professor Chi Ming CHE
Zhou Guangzhao Professor in Natural Sciences
Head and Chair Professor of Department of Chemistry

As an Elected Member of the Chinese Academy of Sciences, the first Hongkonger to receive a First-class Prize of the State Natural Science Award and recipient of numerous awards in international academic arena including Foreign Associate of the US National Academy of Sciences, Professor Che’s pioneering study on synthetic chemistry shapes the culture of local research community. Steering the direction of profound research like Laboratory for Synthetic Chemistry & Chemical Biology and State Key Laboratory of Synthetic Chemistry, his wisdom can definitely inspire one’s heart.

Professor Ngai Ming MOK
Edmund and Peggy Tse Professor of Mathematics
Director of Institute of Mathematical Research
Chair Professor of Department of Mathematics

As a top-notch mathematician who has resolved many classic math problems, Professor Mok has been the leading figure and the brain of HKU Institute of Mathematical Research for years. Among his recent professional accolades, Member of the Chinese Academy of Sciences, State Natural Science Award, and Fellow of the Hong Kong Academy of Sciences are some of the representative ones. He appreciates the aesthetics of mathematics, which young intellectuals will find his “mathematics-as-life” attitude enlightening.

Professor Michael NG
Chair Professor of Department of Mathematics

Professor Ng’s research interests lie in artificial intelligence, data science and scientific computing, which are crucial for shaping the future of human life. He is a recipient of the Feng Kang Prize of Scientific Computing. Setting his vision far and wide, he is the pilot for the development of research in Mathematical and Statistical Science in the Faculty. Nonetheless, Professor Ng is no ordinary scholar — he is among the inspiring ones who would share thoughts and experiences beyond academic knowledge.

Professor Wang YAO
Chair Professor of Department of Physics

Professor Yao is a condensed matter physicist. He has been named by Clarivate Analytics in the list of “Highly Cited Researchers” among the world’s eminent researchers in 2018 - 2020. His current research interest lies in 2D materials, and has played a decisive role in creating an important new research direction – valley optoelectronics, which aims to exploit valley, a quantum degree of freedom of electron, in future optoelectronic devices. He is an Elected Fellow of American Physical Society, RGS Senior Research Fellow and Founding Member of Hong Kong Young Academy of Sciences.

Professor Guochun ZHAO
Chair Professor of Department of Earth Sciences

Professor Zhao has a clear mind in the face of challenges on his research of metamorphic petrology, Precambrian geology and supercontinents. His perseverance makes him the holder of many prestigious honours – Member of Chinese Academy of Sciences, National Natural Science Award (First-class, co-winner), State Natural Science Award (Second-class, co-winner), and named by Clarivate Analytics as “Highly Cited Researcher” for 7 years in a row.
Words from our student

“HKU Science is the only Faculty offering an intensive major programme in Ecology & Biodiversity in Hong Kong, and this is why I am here! I am eager to learn directly from the grand masters and masters — a precious opportunity exclusive to students of this Science Master Class programme, so that I can further enrich my knowledge and develop my practical skills in Ecology and Biodiversity. I hope this programme can equip me to conduct research about habitat studies of succulent plants in Mexico, South Africa and Madagascar in the future.”

Jerry NG
BSc&MRes Year 1 student

Admissions Requirements & Applications

JUPAS Applicants

- Students in local secondary schools taking the Hong Kong Diploma of Secondary Education (HKDSE) should apply through JUPAS.
- Minimum requirements:

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<tr>
<th>English Language</th>
<th>Chinese Language</th>
<th>Mathematics</th>
<th>Liberal Studies</th>
<th>Elective subjects</th>
<th>M1 / M2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 5*</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 2</td>
<td>Level 3</td>
<td>Level 4</td>
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- Candidates with level 4 in English Language but excellent results in Science subjects/ Mathematics will be exceptionally considered on a case-by-case basis.
- Science elective subjects: Biology, Chemistry, Physics, Combined Science.

Non-JUPAS Applicants

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.

Quota: 24

Further Information

Programme link:
bit.ly/3kTnPnM

Useful Information:
www.aal.hku.hk/admissions

HKU Undergraduate Admissions

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