FACULTY OF SCIENCE

We now have 2,500 undergraduates. For postgraduate studies, we have around 600 research postgraduate students (master’s and doctoral) and around 400 taught postgraduate students.

6 major teaching units, offering 14 undergraduate programmes & 20+ postgraduate programmes

- School of Life Sciences
- Department of Chemistry
- Department of Mathematics
- Department of Physics
- Department of Statistics
- Earth System Science Programme
• B.Sc. in Biochemistry
• B.Sc. in Biology
• B.Sc. in Cell and Molecular Biology
• B.Sc. in Chemistry
  ▪ Enrichment Stream
  ▪ Testing and Accreditation Stream
• B.Sc. in Environmental Science
• B.Sc. in Food and Nutritional Sciences
• B.Sc. in Molecular Biotechnology
• B.Sc. in Statistics
  ▪ Data Analytics Stream
  ▪ Data Science and Business Statistics Stream
  ▪ Statistical Science Stream

14 Undergraduate Major Programmes
plus 20+ Streams/Concentrations

A Wide Range of Choices!

• B.Sc. in Earth System Science
  ▪ Atmospheric Science Stream
  ▪ Geophysics Stream
• B.Sc. in Mathematics
  ▪ Computational and Applied Mathematics Stream
  ▪ Computational Big Data Analytics Stream
  ▪ Enrichment Mathematics Stream
  ▪ Mathematics Stream
  ▪ Mathematics-Education Stream
  ▪ Mathematics-Multidisciplinary Stream
• B.Sc. in Physics
  ▪ Astrophysics and Particle Physics Stream
  ▪ Computational and Data Physics Stream
  ▪ Enrichment Stream in Theoretical Physics
  ▪ Quantum Science and Technology Stream
• B.Sc. in Natural Sciences
  ▪ A 2-year programme for articulation of LOCAL Associate Degree / Higher Diploma Holders with 7 concentration areas
• B.Sc. in Quantitative Finance and Risk Management Science
• B.Sc. in Risk Management Science
  ▪ Risk Analytics Stream
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• B.Sc. in Chemistry
  ▪ Enrichment Stream
  ▪ Testing and Accreditation Stream
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  ▪ Quantum Science and Technology Stream

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  A 2-year programme for articulation of local Associate Degree / Higher Diploma Holders with 7 concentration areas
• B.Sc. in Quantitative Finance and Risk Management Science
• B.Sc. in Risk Management Science
  ▪ Risk Analytics Stream
Programme-based Admission

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  - Testing and Accreditation Stream
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- B.Sc. in Food and Nutritional Sciences
- B.Sc. in Molecular Biotechnology
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  - Statistical Science Stream

**SCIENCE Broad-based Admission**

**Programme-based Admission**

- B.Sc. in Earth System Science
  - Atmospheric Science Stream
  - Geophysics Stream
- B.Sc. in Mathematics
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  - Computational Big Data Analytics Stream
  - Enrichment Mathematics Stream
  - Mathematics Stream
  - Mathematics-Education Stream
  - Mathematics-Multidisciplinary Stream
- B.Sc. in Physics
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  - Computational and Data Physics Stream
  - Enrichment Stream in Theoretical Physics
  - Quantum Science and Technology Stream

- B.Sc. in Natural Sciences
  A 2-year programme for articulation of local Associate Degree / Higher Diploma Holders with 7 concentration areas
- B.Sc. in Quantitative Finance and Risk Management Science
- B.Sc. in Risk Management Science
  - Risk Analytics Stream
SCIENCE BROAD-BASED ADMISSION

Students can explore their interests in 11 science programmes first and declare a major at the time of entrance, or at the end of Year 1 or Year 2.

Taste Before Selection
No Quota
Flexible

12% End of Year 2
(Phase 3)

63% End of Year 1
(Phase 2)

25% Time of Entrance
(Phase 1)
## Admission Requirements

**JUPAS Choice**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Quota</th>
<th>CHI</th>
<th>ENG</th>
<th>MAT</th>
<th>LS</th>
<th>1st Elective</th>
<th>2nd Elective</th>
<th>Elective Requirements</th>
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<tr>
<td>JS4601</td>
<td>374</td>
<td>3</td>
<td>3</td>
<td>2</td>
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<td>1st Elective: Any ONE from Biology / Chemistry / Physics / M1 or M2 / Combined Science or Integrated Science</td>
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<tr>
<td>Earth System Science (Atmospheric Science / Geophysics)</td>
<td>20</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>1st Elective: Any ONE from Physics / M1 or M2 / Chemistry / Geography / Combined Science</td>
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<tr>
<td>JS4682</td>
<td>27</td>
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<td>3</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>1st Elective: M1 or M2</td>
</tr>
<tr>
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<td>4</td>
<td>3</td>
<td>1st Elective: Physics</td>
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<tr>
<td>JS4690</td>
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<td>3</td>
<td>3</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>1st Elective: Any ONE subject in Category A</td>
</tr>
<tr>
<td>Quantitative Finance &amp; Risk Management Science</td>
<td>20</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>1st Elective: Any ONE subject in Category A</td>
</tr>
<tr>
<td>JS4719</td>
<td>26</td>
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<td>3</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>1st Elective: M1 or M2</td>
</tr>
</tbody>
</table>

### Selection Principle

**Best 5**

### Subject Weighing

*www.sci.cuhk.edu.hk/jupas*
### SUBJECT WEIGHTING

<table>
<thead>
<tr>
<th>JUPAS Choice</th>
<th>HKDSE Subjects with Heavier Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JS4601 SCIENCE</strong></td>
<td>(A maximum of 3 subjects will be weighed heavier)</td>
</tr>
<tr>
<td></td>
<td>- Chinese OR English Language (x 1.5)</td>
</tr>
<tr>
<td></td>
<td>- Mathematics (x 2)</td>
</tr>
<tr>
<td></td>
<td>- M1 OR M2 (x 2)</td>
</tr>
<tr>
<td></td>
<td>- Biology, Chemistry, Combined Science OR Integrated Science, Physics (x 2)</td>
</tr>
<tr>
<td></td>
<td>- Economics, Geography, Information and Communication Technology (ICT), Technology and Living (Food Science &amp; Technology) (x 1.5)</td>
</tr>
<tr>
<td><strong>JS4633</strong></td>
<td></td>
</tr>
<tr>
<td>Earth System Science</td>
<td></td>
</tr>
<tr>
<td>(Atmospheric Science / Geophysics)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- English Language</td>
</tr>
<tr>
<td></td>
<td>- Mathematics</td>
</tr>
<tr>
<td></td>
<td>- M1 OR M2</td>
</tr>
<tr>
<td></td>
<td>- Biology, Chemistry, Combined Science OR Integrated Science, Geography, Physics</td>
</tr>
<tr>
<td><strong>JS4682</strong></td>
<td></td>
</tr>
<tr>
<td>Enrichment Mathematics</td>
<td>The programme places much heavier emphasis on M1 OR M2</td>
</tr>
<tr>
<td><strong>JS4690</strong></td>
<td></td>
</tr>
<tr>
<td>Enrichment Stream in</td>
<td></td>
</tr>
<tr>
<td>Theoretical Physics</td>
<td></td>
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<tr>
<td></td>
<td>- Mathematics</td>
</tr>
<tr>
<td></td>
<td>- M1 OR M2</td>
</tr>
<tr>
<td></td>
<td>- Physics</td>
</tr>
<tr>
<td><strong>JS4719</strong></td>
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</tr>
<tr>
<td>Risk Management Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Mathematics (x 2)</td>
</tr>
<tr>
<td></td>
<td>- M1 OR M2 (x 2)</td>
</tr>
<tr>
<td><strong>JS4276</strong></td>
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</tr>
<tr>
<td>Quantitative Finance &amp;</td>
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</tr>
<tr>
<td>Risk Management Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- English Language (x 2)</td>
</tr>
<tr>
<td></td>
<td>- Mathematics (x 2)</td>
</tr>
<tr>
<td></td>
<td>- Chemistry, Economics, Physics, M1 OR M2 (x 1.5)</td>
</tr>
</tbody>
</table>

**Note:** Unless specified, subject weighting ranges from 1.2 – 2.0

- Mathematics (M1 or M2) will be recognized as an elective subject in the calculation of admission score.
- **Bonus points** will be assigned to the 6th and 7th subjects.
ADMISSION CONSIDERATIONS

- Performance in public examinations
- Personal Statement, Student Learning Profile (SLP), School Reference Report, etc. on JUPAS website
- JUPAS sub-schemes (e.g. Other Experiences and Achievements OEA, School Principal’s Nominations SPN, Sports Scholarship Scheme SSS)
- Interview performance (if applicable)
- STEM background and activities (e.g. SAYT / STEM / EPYMT courses, STEM-related competitions)
All programmes will conduct interviews for JUPAS applicants. The interview arrangements *(before and after the release of HKDSE results)* of different programmes are as follows:

<table>
<thead>
<tr>
<th>Admission Line</th>
<th>Before</th>
<th>After</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS4601 SCIENCE</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JS4633 Earth System Science</td>
<td>Yes</td>
<td>---</td>
</tr>
<tr>
<td>(Atmospheric Science / Geophysics)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JS4682 Enrichment Mathematics</td>
<td>Yes</td>
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</tr>
<tr>
<td>JS4690 Enrichment Stream in Theoretical Physics</td>
<td>Yes</td>
<td>---</td>
</tr>
<tr>
<td>JS4276 Quantitative Finance &amp; Risk Management Science</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JS4719 Risk Management Science</td>
<td>Yes</td>
<td>---</td>
</tr>
</tbody>
</table>
Career Prospects of Science Graduates
CAREER PROSPECTS


- Commerce & Industry: 37%
- Further Studies: 30%
- Education: 13%
- Social & Public Organisations: 5%
- Government: 2%
- Others: 13%

POTENTIAL EMPLOYERS
SCIENCE CAREER FAIR

www.sci.cuhk.edu.hk/sci-career-fair

Activities:

- Resume Writing Workshop
- One-to-one Resume Clinic
- Alumni Sharing Sessions
- Exhibitions Booths
- Interviews
- Career / Recruitment Talks
- Company Visits

Latest Jobs offered by Employers

Career Update

VISIT NOW

Writing a Successful Resume Workshop

31 March 2021
2:30 - 3:30 pm
ZOOM

Science Alumni Sharing:
Steps to become a Science Teacher

PGDE Programme Qualifications
Getting Teaching Position
Key Skills Evaluation
Experience Sharing

Speakers:
Science Alumni
in teaching profession
Learn more

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📞 (852) 3943 6327
✉️ sfo@cuhk.edu.hk
🌐 www.sci.cuhk.edu.hk
JOIN US
To Empower Everyone’s Dreams!