Admission
BSc in Applied Physics
Programme Overview – Bachelor of Science in Applied Physics

To learn more about the our BSc in Applied Physics Programme, please visit our website: https://www.cityu.edu.hk/phy/undergraduate/bs-applied-physics
Joint Bachelor’s Degree Program
between City University of Hong Kong and Columbia University

Year 2 Applied Physics major students who meet certain requirements can apply for admission to the Joint Bachelor’s Degree Program between City University of Hong Kong and Columbia University in USA.

On completion of the curriculum requirements, students will earn two bachelor's degrees - one from CityU, and the other one from Columbia University.

CHENG Yuanhao and SONG Yuan graduated from the Joint Bachelor’s Degree Program in 2018

To learn more about the Joint Bachelor’s Degree Program, please visit http://gs.columbia.edu/cityu-hk/

WU Peilin (right) graduated from the Joint Bachelor’s Degree Program in 2019
Admission Requirements

- Satisfy the General Entrance Requirements of the University with a science or engineering background; OR
- Associate Degree or Higher Diploma Holder in a relevant discipline or other technical qualifications; OR
- Other 13-year school-leaving qualification holder (e.g. IB Diploma, GCEAL)

HKDSE Students

JUPAS

JUPAS Code: JS1208
BSc - Applied Physics

BSc – Applied Physics (Year 1)
- Gateway Education Courses
- College/Department Core Courses

BSc – Applied Physics (Year 2-4)
- Biomedical Physics
- Renewable Energy
- Quantum Physics
- Computational Physics

Non-HKDSE Students

Direct Application (Non-JUPAS)

13-year School-leaving Qualification Holders (e.g. IB Diploma, GCEAL)

Non-JUPAS Code: 1208
BSc – Applied Physics

Non-JUPAS Code: 1638A
BSc – Applied Physics

Associate Degree/Higher Diploma Holders

Admission with Advanced Standing
Depending on the qualifications, students will be admitted to Year 2 or 3 of the 4-year curriculum.
The Department of Physics Undergraduate Entrance Scholarships

• Undergraduate students who are admitted to the Bachelor of Science in Applied Physics program through the JUPAS route with an admission score (non-weighted 4+2) of 26 or above will be automatically considered for the scholarships.

• Each scholarship awardee will receive up to $40,000 which is payable in Year 1 and 3.
# Entrance Requirements

## JUPAS

<table>
<thead>
<tr>
<th>JUPAS Catalogue No. and Title</th>
<th>Minimum Level Required</th>
<th>Two Elective Subjects* (including M1 / M2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English Language</td>
<td>Chinese Language</td>
</tr>
<tr>
<td>JS1208 BSc Applied Physics</td>
<td>Level 3</td>
<td>Level 3</td>
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</tbody>
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*Remarks:
- Besides Category A elective subjects, Mathematics extended modules (M1/M2) (except for JS1801) and Category C other language subjects (at grade E or above) can also be used to meet the elective requirement.
- If students take both M1 and M2, they are counted as one subject only.
- Applied Learning subjects are not counted as elective subjects.
Entrance Requirements
JUPAS

Non-Chinese Speaking (NCS) Students

Applicants who have (i) learned Chinese Language for less than 6 years while receiving primary and secondary education or (ii) learned Chinese Language for 6 years or more in schools but have been taught an adapted and simpler Chinese Language curriculum not normally applicable to the majority of students in local schools can use the following qualifications to replace HKDSE Chinese Language Level 3 to meet the Chinese language entrance requirement.

- HKDSE Applied Learning Chinese “Attained” or above
- GCEAL/AS Chinese Grade E or above
- GCSE/IGCSE Chinese Grade C / Grade 4 or above

HKDSE other language subjects cannot normally be used to meet the Chinese language entrance requirement. Whilst waivers may be granted at the discretion of individual colleges/schools/departments, such measures are only taken under special circumstances on a case-by-case basis. Students are thus strongly advised to obtain the requisite Chinese qualifications.
2020 JUPAS – Assessment of Applications

<table>
<thead>
<tr>
<th>Admission Score (with weighting applied) for Main Consideration</th>
<th>Subject Weighting</th>
<th>Other Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subjects Included</td>
<td></td>
<td></td>
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<tr>
<td>4 core + 2 elective subjects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Language</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Chinese Language</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Maths</td>
<td>1.25</td>
<td></td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Elective Subject(s) (including M1 / M2)</td>
<td>2: Physics</td>
<td></td>
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<tr>
<td></td>
<td>1.5: M1/M2</td>
<td></td>
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</tbody>
</table>
|                                                              | 1: Other elective subjects | For students with the same score, reference will be made to other information (e.g. results in discipline-related subjects, band, interview performance, OEA).

Notes:
- Mathematics extended modules (M1/M2) and "other languages" (at grade E or above) can be used to meet the elective requirement. If students take both M1 and M2, they are counted as one subject only.
- Applied Learning subjects are not counted as elective subjects.
- The elective subject(s) with the highest weighted score(s) is/are counted.
- As a guide for applications, a minimum score of 21 (aggregate score of 4 core + 2 elective subjects without weightings applied) is normally expected for successful admission, based on past data.
2019 JUPAS (HKDSE) Admission Scores

### JS1208 – BSc Applied Physics

<table>
<thead>
<tr>
<th>Weighted Admission Score</th>
<th>Sample Cases</th>
<th>HKDSE Results</th>
<th>Elective Subjects</th>
<th>Score Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>English Language</td>
<td>Chinese Language</td>
<td>Mathematics (Compulsory Part)</td>
</tr>
<tr>
<td>Weighting: 2</td>
<td>Weighting: 1</td>
<td>Weighting: 1.25</td>
<td>Weighting: 1</td>
<td>Weighting: 2</td>
</tr>
<tr>
<td>Median</td>
<td>30</td>
<td>Student A</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Lower Quartile</td>
<td>29</td>
<td>Student B</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

For further details of entrance requirements and application procedures, please visit the website of our Admissions Office: [http://www.admo.cityu.edu.hk/](http://www.admo.cityu.edu.hk/)
Intake Quota 2020/21

Year 1
BSc Applied Physics
理學士（應用物理學）

Intake Quota: 36 *
(2020-21)

Advanced Standing Admissions:
BSc Applied Physics
理學士（應用物理學）

<table>
<thead>
<tr>
<th></th>
<th>Advanced Standing I</th>
<th>Advanced Standing II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake Quota:</td>
<td>≤ 7 *</td>
<td>10 *</td>
</tr>
<tr>
<td>(2020-21)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Indicative intake quota, subject to change
Graduate Employment Survey 2018
Bachelor of Science - Applied Physics

Employment Sector
- Engineering, Architectural & Technical Services
- Business Service/ Real Estates
- Civil Service
- Community Social & Personal Services

Job Nature
- Engineering & Technical Work
- Administration/Management
- Systems Analysis & Computer Programming
- Secretarial/Clerical Work
At a Glance:
PHY Student Activities
Student Exchange

In addition to Institutional and College Level Student Exchange programmes, PHY Department offers **Departmental Level Student Exchange Programmes**

**Umeå University**
Department of Physics
[Sweden]
6 Students per academic year

**Ulsan National Institute of Science and Technology**
[Republic of Korea]
2 Students per academic year
Student Exchange

In addition to Institutional and College Level Student Exchange programmes, PHY Department offers Departmental Level Student Exchange Programmes

**National Taiwan University**
Department of Materials Science and Engineering  
[Taiwan]  
5 Students per academic year

**National Sun Yat-sen University**
Department of Physics  
[Taiwan]  
5 Students per academic year
Study Tour

Industrial Exposures/ Company Visits

Japan
Visiting HKT Network Operating Centre

Singapore
Visiting iAdvantage and Epsilon facilities

Shanghai
Visiting PCCW MCX10 Data Center
Undergraduate Research Attachment Scheme (Local and Overseas)

Through participation in the day-to-day laboratory work and/or engagement in an authentic research project setting, early research exposures enable students to identify areas of interest for further investigation.
The Co-operative Education Centre of College of Science and Engineering (CSE) offers three internship schemes for CSE students:

- Industrial Attachment Scheme (IAS)
- Co-operative Education Scheme (CES)
- Overseas Internship Scheme (OIS)
Internship Opportunities (Local and Overseas)

Besides the work placement opportunities offered by the College, PHY offers final year project attachment to Queen Elizabeth Hospital.

Through internship training, students learn to apply classroom learning to real life and at the same time improve their problem solving and interpersonal skills.
To recognize students' academic and non-academic achievement, the University offers various types of scholarships and prizes which are donated by individuals, private organizations, professional bodies or academic departments.

The majority of scholarships and prizes are awarded based on academic performance and recipients are nominated by their respective Colleges/ Schools/Academic Departments.

PHY Education Fund Scholarship(s)

In addition to the institutional and external scholarships, PHY Education Fund Scholarship(s) (department-based scholarship) is awarded to PHY full-time undergraduate students who:

(i) have achieved outstanding academic performance in the previous academic year [For first-year students, they should have good academic results during secondary/post-secondary education (including public examinations)]; and

(ii) have demonstrated active participation in Departmental service.

Credits will also be given to proven record of extra-curricular activities, leadership and community service.
Contacts

Department of Physics:
https://www.cityu.edu.hk/phy

Admission Office:
https://www.admo.cityu.edu.hk

BScAP Admission Tutor:
Professor KS Chan
📞 34427814
✉️ apkschan@cityu.edu.hk