### Faculty of Science

**Physics**

<table>
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<tr>
<th>Offered As:</th>
<th>✓ Major</th>
<th>✓ Intensive Major</th>
<th>✓ Minor</th>
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<tbody>
<tr>
<td><em>Open to students of other Faculties:</em></td>
<td>✓</td>
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#### What is it about?

The Major in Physics aims to provide students with a solid foundation on the subject. Core courses form the blocks of fundamental knowledge to pursue learning in specialisations, e.g. quantum mechanics, statistical mechanics, classical mechanics and electrodynamics. A large selection of elective courses is provided for students to pursue a wide range of topics from the very small scale (i.e. subatomic particles) to the large scale (i.e. cosmology). Students will attain professional knowledge in physics, research experience and the training of analytical thinking and quantitative reasoning during their studies.

The Major in Physics (Intensive) aims to provide students with a solid foundation on the subject in breadth and depth. It covers a wide range of core areas which provides the intensive preparation to pursue learning in specialisations, e.g. quantum mechanics, statistical mechanics, classical mechanics and electrodynamics. A large selection of elective courses is provided for students to pursue a wide range of topics from the very small scale (i.e. subatomic particles) to the large scale (i.e. cosmology). Students will attain professional knowledge and competencies in physics and research experience plus the training of analytical thinking, quantitative reasoning, and problem solving methods during their studies.

The Minor in Physics is intended to provide interested students with a fundamental outlook on the subject. Students would acquire a taste of the subject through a large selection of elective courses which provides them to pursue a wide range of topics from the very small scale of nanomaterials to the large scale of astrophysics.

#### Pre-requisites and/or other conditions for declaring the major/minor:

**Major/ Intensive Major/ Minor:**

Students must have level 3 or above in HKDSE Physics or equivalent to take this major/ minor. Students who do not fulfill this requirement are advised to take PHYS1240 Physics by inquiry. Please refer to the course prerequisites of the required courses.

For details, please check with the Department of Physics.

#### Career opportunities:

For the Physics Major, graduates are expected to have acquired the broad training which can equip them well for further studies in multiple science and technology disciplines and to work in their specialised area.

As for the Intensive Physics Major, graduates are expected to be well-prepared for further studies in physics and related disciplines and to pursue careers in scientific or technical fields.

For details, please check with Faculty or CEDARS (Careers & Placement).

#### Further information:

**Major:**


**Intensive Major:**

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<th><strong>Minor:</strong></th>
<th><a href="https://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Minor&amp;Code=MinorInPhysics&amp;AdmissionYear=2019">https://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Minor&amp;Code=MinorInPhysics&amp;AdmissionYear=2019</a></th>
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| **Contact:** | E: physdept@hku.hk  
T: 2859 2360 |

* Note: Students pursuing curricula with major / minor programme(s) must complete at least one major programme from their home Faculties upon graduation.

Disclaimer: The information mainly applies to students admitted in 2019-2020 and thereafter. For students from different cohorts, the information is only for reference. Please check with Faculty/offering department for details. The pre-requisites / conditions are subject to changes by Faculties from time to time, and students are advised to check with their Faculty Office in case of doubt.