Aerospace Science and Earth Informatics + X (ASEI+X) Double Major Programme

The Chinese University of Hong Kong (CUHK) and The Chinese University of Hong Kong (Shenzhen) (CUHK(SZ)) are launching a comprehensive Collaborative Double Major Programme with Aerospace Science and Earth Informatics as one of the majors.

CUHK students admitted in the fourth-year programme will pursue a major in Aerospace Science and Earth Informatics at CUHK along with another major from among specific academic disciplines (Engineering, Science and Social Science) offered by either CUHK or CUHK(SZ). They will attend classes and participate in learning and research activities at both the CUHK Shatin campus and the Shenzhen campus.

In 2014, CUHK(SZ) was founded with the mission of providing quality education that bridges China and the world. It endeavours to cultivate innovative talents with a global perspective and with a rooted foundation in Chinese traditions and social responsibilities. CUHK governs the academic standards of CUHK(SZ), ensuring that teaching and learning are at the same high level as on the Shatin campus.

Major Theme

The Bachelor of Science in Aerospace Science and Earth Informatics offers a comprehensive programme that aims to unravel the mysteries of outer space and our own planet. This highly interdisciplinary undergraduate major combines the realms of aerospace science and Earth informatics, equipping students to harness the power of data and invent innovative solutions to explore the outer space and to safeguard our planet Earth.

Cutting-Edge Technologies

Aerospace science encompasses the scientific exploration, development and application of technologies to study and navigate within and beyond the Earth’s atmosphere. Earth informatics combines knowledge of Earth sciences and skills of geospatial data science to understand and monitor the Earth’s environments and changes. Integrated within a coherent, interdisciplinary programme, students are able to gain an in-depth understanding of the intimate interplay between space exploration and the Earth’s environment, acquiring expertise in satellite and aerospace technologies, remote sensing, geocomputing and geospatial data analysis, machine learning, atmospheric and space physics, environmental and climate change monitoring and modeling.

Unlock Boundless Opportunities

As part of a double-major programme with CUHK (Shenzhen), students will take advantage of a second major to become more specialized in a field related to ASEI, including but not limited to aerospace engineering, Earth and climate sciences, new energy science, space physics, data science, geoinformatics and geospatial data analysis, machine learning, atmospheric and space physics, environmental and climate change monitoring and modeling.

Diverse Career Opportunities

Students will be prepared to step into a world of ample career opportunities, with skills and knowledge sought after by government agencies, research institutes, and NGOs. Students will also be ready for advanced studies in the Earth and planetary sciences, space physics, climate science, aerospace engineering, information technology, and data science.

Study Pattern (tentative)

<table>
<thead>
<tr>
<th>Year</th>
<th>Term</th>
<th>Home campus</th>
<th>Host campus</th>
<th>Optional terms (tentative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Term 1</td>
<td>CUHK (Shatin)</td>
<td>CUHK (Shenzhen)</td>
<td>Co-op Work Term 1</td>
</tr>
<tr>
<td>2</td>
<td>Term 2</td>
<td>Shatin</td>
<td>SZ</td>
<td>Experiential learning</td>
</tr>
<tr>
<td>3</td>
<td>Term 3</td>
<td>SZ</td>
<td>Shatin</td>
<td>Experiential learning</td>
</tr>
<tr>
<td>4</td>
<td>Term 4</td>
<td>Home campus</td>
<td>Shatin</td>
<td>Group Work Term 2</td>
</tr>
</tbody>
</table>

Contact Us

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**Period of Study and Fees**

- Normative study period: 4 years
- Students should apply for admission in 2024
- Co-op Work Term 1: To be paid to the home campus
- Tuition fees to be paid to the home campus

**Participating major programmes from CUHK include:**

- Earth and Environmental Science
- Energy and Environmental Engineering
- Geography and Resource Management (in collaboration with the Faculty of Science and Earth Informatics)
- Mechanical and Automation Engineering
- Physics

**Participating major programmes from CUHK(SZ) include:**

- Urban Management (pending AES) (subject to revision in 2023)
- Electrical and Computer Engineering
- Physics
- Data Science and Big Data Technology

**Highlight**

- A broader range of academic opportunities: ASEI enables students with knowledge and skills across two campuses to gain a breadth of experience
- Flexible course taking and valuable learning experience in two campuses (Shatin and Shenzhen)
- Exposure to two major Greater Bay Area (GBA) cities, with opportunities for co-learning and co-op experiences
- A broader range of academic opportunities: ASEI equips students with knowledge and skills across two campuses to gain a breadth of experience
- Guaranteed admission to the Co-op programme to gain full-time work experience with pay
- Strong and fruitful industry connection