CUHK × CUHK(Shenzhen)
Aerospace Science and Earth Informatics × X (ASE+iX)
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 enrolled in the four-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 Sciences) 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 launched in the name of providing higher education that bridges China and the world. It endeavours to cultivate innovative talents with a global perspective and who can break into new frontiers and social responsibilities. CUHK(SZ) governs the academic standards of CUHK(SZ), ensuring that teaching and learning are at the same high levels as at the Shatin campus.

Major Theme

The Bachelor of Sciences 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 emphasizes 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 intricate interplay between space exploration and the Earth’s environment, acquiring expertise in satellites and aerospace technologies, remote sensing, geomatics and photogrammetry, data analysis, machine learning, atmospheric and oceanic sciences, and renewable energy, coastal 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 aerospace companies, space agencies, environmental consulting firms, geographic information system (GIS) companies, 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.

Unrivalled Bilingual Opportunities

As part of a double-major programme with CUHK (Shenzhen), students take advantage of a second major to become more specialized in a field related to ASE+iX, including but not limited to aerospace engineering, Earth sciences, economy, energy science, space physics, data science, geographic information science, and natural resource management.

Participating major programmes from CUHK include:
- Earth and Environmental Sciences
- Geographies and Resource Management (in collaboration with the School of Design and Earth Informatics, the Department of Architecture and the School of Design and Earth Informatics)
- Physics

Participating major programmes from CUHK(SZ) include:
- Urban Management (joint PhD, in collaboration with CEER)
- Electrical and Computer Engineering
- New Energy Science and Engineering

Highlight

- A broader range of academic opportunities: ASE+iX allows students with knowledge and skills across disciplines to advance with breadth, while the other major is a related discipline enabled in depth studies.
- Flexible course taking and valuable learning experience on two campuses (Shatin and Shenzhen)
- Exposure to two major Greater Bay Area (GBA) cities, with credit-bearing experiential learning opportunities
- An engaging and encouraging experience for the same cohort of students following a standard study pattern, gaining students networking-building capabilities
- Guaranteed admission to the Co-op programme to gain full-time work experience with pay
- Strong and fruitful industry connection

Curriculum Structure

<table>
<thead>
<tr>
<th>CUHK admitted students (CUHK as home campus)</th>
<th>CUHK(SZ) admitted students (CUHK(SZ) as home campus)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Major:</strong> SidE in ASE+iX</td>
<td><strong>First Major:</strong> The Admitted Major</td>
</tr>
<tr>
<td><strong>Second Major:</strong> Choose one from the following majors offered by CUHK or CUHK(SZ)</td>
<td><strong>Second Major:</strong> ASE+iX</td>
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Study Pattern (tentative)

<table>
<thead>
<tr>
<th>Students not joining the Co-op Programme</th>
<th>Year</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>Term 1</td>
<td>SideA</td>
<td>StS</td>
<td>SideA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Term 2</td>
<td>CampA</td>
<td>CampB</td>
<td>CampA</td>
<td></td>
<td></td>
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<tr>
<td>Semester</td>
<td>Expertise learning</td>
<td>Expertise learning</td>
<td>Expertise learning</td>
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Students joining the Co-op Programme

<table>
<thead>
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<th>Term 1</th>
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<tr>
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<td>Expertise learning</td>
<td>Expertise learning</td>
<td>Co-op Work Term</td>
<td></td>
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</tbody>
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Contact Us

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* The programme is subject to approval by the Board of CUHK.