

# CUHK × CUHK(Shenzhen)

## Aerospace Science and Earth Informatics & X Double Major Programme (JS4750)



### CUHK × CUHK(Shenzhen) Aerospace Science and Earth Informatics & 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 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 Science) offered by either CUHK or CUHK(SZ). They will attend classes and participate in learning and research activities at both the Hong Kong campus and the Shenzhen campus.

In 2014, CUHK(SZ) was founded with the mission of providing higher education that bridges China and the world. It endeavours to cultivate innovative talents with a global perspective and who values Chinese cultural 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 intricate interplay between space exploration and the Earth's environment, acquiring expertise in satellite and aerospace technologies, remote sensing, geoinformatics and geospatial data analysis, machine learning, atmospheric and space physics, as well as 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 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.

#### Unlock Boundless Opportunities

As part of a double major programme with CUHK (Shenzhen), students will take advantage of a second major to become more specialised in a field related to ASEI, including but not limited to aerospace engineering, Earth and climate sciences, new energy science, space physics, data science, geographic information science, and natural resource management.

#### Curriculum Structure

| CUHK admitted students<br>(CUHK as home campus) |  | CUHK(SZ) admitted students<br>(CUHK(SZ) as home campus) |   |
|---|--|---|---|
| First Major:                                    | Aerospace Science and Earth Informatics                              | First Major:  | The Admitted Major                      |
| Second Major:                                   | Choose one from the participating majors offered by CUHK or CUHK(SZ) | Second Major:   | Aerospace Science and Earth Informatics |

^ Applicable to students admitted by CUHK



#### Participating major programmes from CUHK include:

- Earth and Environmental Sciences
- Energy and Environmental Engineering
- Geography and Resource Management (in collaboration with the Institute of Space and Earth Information Science)
- Mechanical and Automation Engineering
- Physics

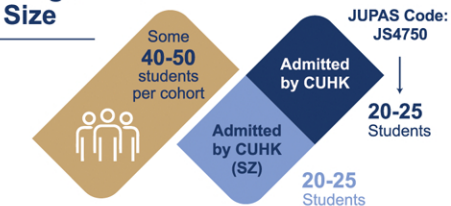


#### Period of Study and Fees

- Normative study period: 4 years
- Spend 2 years in CUHK and 2 years in CUHK(SZ)
- Students can access a list of substitute/equivalent/alternative courses between CUHK and CUHK(SZ) to complete the required and elective courses on either campus, following a well-designed study pattern, to fulfill the graduation requirements of their home campus
- Receive the degree of the first major at the home campus upon completion of all degree requirements of the home campus
- Tuition fees: To be paid to home campus



#### Programme Size



#### Study Pattern<sup>^</sup>

##### Students not joining the Co-op Programme

|        | Year 1                | Year 2                | Year 3 | Year 4 |
|--------|-----------------------|-----------------------|--------|--------|
| Term 1 | HK                    | SZ                    | HK     | SZ     |
| Term 2 | SZ                    | HK                    | SZ     | HK     |
| Summer | Experiential learning | Experiential learning | -      | -      |

##### Students joining the Co-op Programme

|        | Year 1                | Year 2                | Year 3            | Year 4            |
|--------|-----------------------|-----------------------|-------------------|-------------------|
| Term 1 | HK                    | SZ                    | HK                | Co-op Work Term 2 |
| Term 2 | SZ                    | HK                    | SZ                | HK                |
| Summer | Experiential learning | Experiential learning | Co-op Work Term 1 | -                 |



#### Contact Us

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

- Urban Management
- Electrical and Computer Engineering
- Physics
- New Energy Science and Engineering
- Data Science and Big Data Technology



#### Highlights

- A broader range of academic opportunities: ASEI equips students with knowledge and skills across boundaries with breadth, while the other major in a related discipline enables in-depth studies
- Flexible course taking and valuable learning experience on two campuses (Hong Kong and Shenzhen)
- Exposure to two major Greater Bay Area (GBA) cities, with credit-bearing experiential learning opportunities
- An engaging and overlapping experience for the same cohort of students following a standard study pattern, augmenting students' network-building capabilities
- Gain full-time work experience with pay by joining the Co-op programme
- Strong and fruitful industry connections



Website