



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

CUHK and CUHK(Shenzhen) offer a comprehensive Collaborative Double Major Programme (CDMP). Students enrolled in this four-year programme will major in **Aerospace Science and Earth Informatics (ASEI)** offered by CUHK, along with a second major in Engineering, Science, or Social Science offered by either university. Learning and research activities take place across both campuses.

CUHK governs the academic standards of CUHK(SZ), ensuring high-quality education across both campuses.

Major Theme

This comprehensive programme combines Aerospace Science and Earth Informatics, preparing students to use data and technology to explore space and address Earth's environmental challenges. By pairing ASEI with a second major, students can specialize in complementary areas such as aerospace engineering, climate science, data science, or resource management.



Key Areas of Study

- Satellite and aerospace technologies
- Remote sensing and geoinformatics
- Geospatial data analysis and machine learning
- Atmospheric and space physics
- Environmental and climate monitoring

Career Paths

Graduates will be well-prepared for roles in aerospace firms, space agencies, environmental consultancies, GIS companies, government bodies, and research institutes. The programme also provides a strong foundation for postgraduate studies in related fields.

Experiential Learning Opportunities

Field Trip to GBA

The programme offers a field trip across the Greater Bay Area. This immersive experience includes curated visits to leading aerospace companies and prestigious research institutions. Students will gain firsthand exposure to satellite technology firms and innovation hubs in cities like Shenzhen, Guangzhou, and Macau. The trip connects classroom learning directly to industry practice and emerging opportunities, which offers invaluable professional perspective and enhances career readiness in the sector.



Summer School at Harbin Institute of Technology

Harbin Institute of Technology (HIT) is renowned as "China's Premier Aerospace University" and "the Cradle of Engineers," having cultivated a large number of top talents for the country's aerospace sector. Many distinguished alumni have served as chief commanders and chief designers of major national aerospace projects. By joining this summer school, students will receive exclusive classroom instruction from leading HIT professors, participate interactive tutorials on rocket and satellite design, gain hands-on experience using HIT's advanced aerospace facilities, and visit HIT's state-of-the-art laboratories and key industry partners.



Curriculum Structure

CUHK admitted students (CUHK as home campus)		CUHK(SZ) admitted students (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



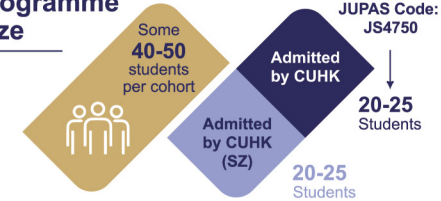
Participating major programmes from CUHK include:

- 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^

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	-

Admission Figures (2025)

Subject	CHI	ENG	MATH	CS	M1/M2	Best Elective	2nd Best Elective	3rd Best Elective	Weighted Total (using 2025 Formula)
Median	3	5*	5	A	5	5*	5	4	44.25 (out of 72.25)
Lower Quartile	4	4	5	A	4	5*	5		38.25 (out of 72.25)

HKDSE Subjects with Special Weighting
2.0 M1 or M2, Physics, Geography
1.5 Mathematics

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

