

Staff

Prof. LEE Fung, Harry
(Programme Director)
Associate Professor, Department
of Geography and Resource Management,
CUHK

Prof. KWAN Mei-Po
Head, Chung Chi College, CUHK
Choh-Ming Li Professor, Geography and
Resource Management, CUHK
Director, Institute of Space and Earth
Information Science, CUHK
Director, Institute of Future Cities, CUHK

Dr. CAI Jixuan
Part-time Lecturer, Department
of Geography and Resource Management,
CUHK Researcher, Tencent

Prof. CHEN Yongqi
Professor Emeritus, Department of Land
Surveying and GeoInformatics, PolyU

Prof. HE Ying, Sylvia
Professor, Department of Geography and
Resource Management, CUHK

Prof. KAN Zihan
Assistant Professor, Department of Geography and
Resource Management, CUHK

Prof. LAM Kin Che
Adjunct Professor, Department of
Geography and Resource Management,
CUHK

Prof. LEUNG Yee
Professor Emeritus, Department of Geography
and Resource Management, CUHK

Prof. LU Xingchen
Assistant Professor, Department of
Geography and Resource Management,
CUHK

Prof. MA Peifeng
Vice-Chancellor Assistant Professor,
Department of Geography and Resource
Management, CUHK

Prof. NG Mee Kam
Professor, Department Vice-Chairperson,
Director, Urban Studies Programme Department
of Geography and Resource Management,
CUHK
Associate Director, Institute of Future Cities,
CUHK
Associate Director, Hong Kong Institute of Asia-
Pacific Studies, CUHK

Prof. SHEA Yu-kai, Geoffrey
Project Fellow, Department of Land Surveying
and GeoInformatics, PolyU

Dr. WONG Kin Hong
Associate Professor, Department of
Computer Science and Engineering, CUHK

Dr. WONG Kwan Kit
Principal Lecturer, Department of Geography
and Resource Management, CUHK

Prof. ZHEGN Qiming
Assistant Professor, Department of Geography
and Resource Management, CUHK

Introduction

Geoinformation Science is an inter-disciplinary field* that involves earth science, information science, and system science. Its focuses are the information of the atmosphere, hydrosphere, lithosphere and biosphere and more specifically their formation, changes and interrelations.

With the human-land relationship as the theme, with catering for global change research, regional sustainable development and smart city construction as the objective, geoinformation science integrates satellite application, remote sensing, geographic information system, computer-aided design and cartography, multi-media and virtual reality techniques and the internet to establish a scientific structure for high-speed information digitization and effective resource management.

In recent years, the trend of smart cities development has been getting apparently important, while geoinformation science is the major tool for materializing the concept of smart cities. Given the above trend and potential, from 2021-22 onward, the programme has further focused on the integration between geoinformation science and smart cities development.

In view of the above-mentioned facts, the present programme is designed to provide a solid conceptual framework and technical know-how for practicing professionals and officials by enhancing their skills and equipping their hands-on experience. It will also introduce the state-of-the-art geo-spatial information technologies and provide students with the capability to manage and apply the latest technologies to solve real life problems.

Tuition Fee

Please refer to the website of CUHK Graduate School (<https://www.gs.cuhk.edu.hk/admissions/programme/social-science#msc-in-geoinformation-science-and-smart-cities>) for detailed information on tuition fee. Tuition fee will be collected in two installments per year.

Scholarship

Outstanding applicants admitted to the programme will be considered for an admission scholarship.

One Outstanding student will be considered for MScGIS Young Research Fellowship.

Please refer to the website (<http://mscgis.grm.cuhk.edu.hk/en/admission.html>) for the latest information.

Application Procedures

Applicants can submit applications via the Internet through CUHK Graduate School (<https://www.gs.cuhk.edu.hk/admissions/admissions/how-to-apply>).

Enquiries

For further information, please contact:
Master of Science in GeoInformation Science and Smart Cities
Department of Geography and Resource Management
Room 220, Wong Foo Yuan Building
The Chinese University of Hong Kong
Shatin, New Territories, Hong Kong

Tel: (852) 3943 8085

Fax: (852) 2603 5006

Email: MScGIS@cuhk.edu.hk

Homepage: <http://mscgis.grm.cuhk.edu.hk/en/>



Application Deadline
End of April each year

The information contained in this brochure is subject to change. Please refer to the homepage of CUHK Graduate School (<http://www.gs.cuhk.edu.hk/>) for the latest information.

Department of
Geography and Resource Management

/ Master of Science in GeoInformation Science and Smart Cities /

(1-year full-time / 2-year part-time)

Objectives

- The objectives of the programmes are:
 - To provide a solid conceptual framework and technical know-how in geoinformation science and technologies.
 - To introduce the state-of-the-art geo-spatial information technologies and provide students with the capability to manage and apply the latest technologies in solving real life problems.
- Upon completion of the programmes, students should possess:
 - Sufficient knowledge and experience in various fields of geoinformation science particularly GIS, remote sensing, spatial decision support systems, multimedia and virtual reality techniques.
 - Technical know-how for applying geoinformation science in solving decision problems with which they can contribute effectively and take a leading role in the industry/profession.

Programme Structure

The full-time MScGIS programme will cover one year with three semesters.

The part-time MScGIS programme will cover two years with two or three semesters in the first year and three semesters in the second year.

The programme will be offered as:

Study Mode	First Year			Second Year		
	Semester			Semester		
	1 st (Sep-Dec)	2 nd (Jan-Apr)	3 rd (May-Aug)	1 st (Sep-Dec)	2 nd (Jan-Apr)	3 rd (May-Aug)
Full-time	4 courses	3 courses	1 course Thesis			
Part-time	2 courses	2 courses	1 course	2 courses	1 course	Thesis

Courses Offered for Full-time and Part-time MScGIS Programme

	Credit
GISM5011 Geographic Information Systems	3
GISM5012 GIS-T and Logistical Information Management	3
GISM5022 Digital Remote Sensing Image Analysis	3
GISM5023 Applied Remote Sensing	3
GISM5024 Global Positioning Systems	3
GISM5033 Artificial Intelligence for Smart Cities	3
GISM5035 Urban Environmental Modeling and Simulation	3
GISM5053 Design and Implementation of Geographical Information Systems	3
GISM5060 Statistical Analysis of Geographical Data	3
GISM5065 Geospatial Big Data for Smart Urban Planning	3
GISM6061 Thesis	4

For MScGIS programme, the total number of credits required for graduation is 28, including six required courses, two elective courses and one thesis.

Who Should Apply?

Anyone working in geoinformation science and technology and its applications, government agencies and private sectors in Asian countries will find the programme useful. Professionals related to geo-technical engineering, urban planning, natural resource management, environmental monitoring and assessment, disaster monitoring and management, infrastructure and facility management, logistical facility monitoring and information management will find the programme highly relevant to their work.



Qualifications for Admission

- Applicants shall have graduated from a recognized university and obtained a Bachelor's degree. Those who expect to obtain a Bachelor's degree in the current academic year may also apply for admission.
- All students should fulfill the English Language Proficiency Requirement prescribed below before they are admitted:
 - Possess a pass grade in English in one of the following examinations:
 - Hong Kong Advanced Level Exam (AS Level);
 - Hong Kong Higher Level Exam;
 - CU HK Matriculation Exam; or
 - Achieve Level 4 or above in the English Language subject of the Hong Kong Diploma of Secondary Education (HKDSE) Examination; or
 - Submit one of the following original score reports/certificates for assessment by the programmes concerned:
 - TOEFL (normally not lower than 550 for paper-based and 79 for Internet-based);
 - IELTS (Academic) (normally not lower than Band 6.5);
 - GMAT (Verbal) (normally not lower than 21); or
 - Have a degree from a university in Hong Kong or an English speaking country; or
 - Have obtained a recognized professional qualification awarded in Hong Kong or an English speaking country.
- The above information is subject to the CUHK Graduate School, please refer to the Graduate School website for more details.