STUDENT LIFE

The School provides student exchange and internship opportunities to our students to gain international perspectives, global engagement and industry experience.

Student may choose between the overseas student exchange opportunities at world-leading institutions provided by the School or the University. Paying the tuition at CityU, students will spend a study semester abroad and may transfer the academic credits earned at the host institution to fulfill the graduation requirement.

The School also partners with premier corporates in a wide range of sectors to offer SDS-in-privileged internship opportunities to our students. With these placements, students are expected to gain practical knowledge and hands-on experience in real-world applications. To date, the School has set up internship arrangements with close to 20 companies.

NEEDED IN ALMOST EVERY FIELD

Academia Consultancy Finance & Banking Government

Healthcare Insurance IT Companies Law

New Media / Social Media Retail & Marketing Social Work Transportation & Logistics

IN-DEMAND DATA SCIENCE CAREERS

Business Intelligence Analyst Consultant Data Analyst Data Engineer

Data Scientist Database Developer Financial Quantitative Analyst Machine Learning Engineer

Statistician Marketing Analyst

From now on, knowledge in data science will be essential to every sector, just like language skill.

Dr Lucas Hui
Chief Technology Officer, ASTRI

I strongly welcome these programmes as they provide graduates of professional training in data science disciplines to fill-up such soaring demand of talents locally and internationally.

Dr. Hue Xiang
Head of Development and Commercialisation, The Laboratory for AI-Powered Financial Technologies Ltd.

SCHOOL OF DATA SCIENCE

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WE PROVIDE DATA SCIENCE PROGRAMMES

City University of Hong Kong offers two unique undergraduate programmes aimed at nurturing and developing students to become data science professionals who are able to discover applicable knowledge to support social and economic development in Hong Kong and beyond.

WHAT IS DATA SCIENCE?

Data science is an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from data. It employs techniques and theories within the context of mathematics, statistics, and computer science. It can add value to businesses by utilizing their data. Data science aims to help solve many important problems ranging from smart city to management and finance.

WHY STUDY DATA SCIENCE?

Recently, businesses and industries powered by data science experience a sharp growth. Various companies and organizations in Hong Kong and beyond are developing their own analytics units. Numerous start-ups and incubation firms focus their energy on data science. Data science has become one of the most popular and promising careers nowadays.

SCHOOL OF DATA SCIENCE (JS1071)

(Options: BSc Data Science, BSc Data and Systems Engineering)

Data Science focuses on solving problems and advancing societies using vast amounts of data. Students of JS1071 will have a free choice of majors (BSc Data Science or BSc Data and Systems Engineering) after one year of study.

WHY US?

1. The first School of Data Science in Hong Kong and the region

2. Ranked 53rd in the world

   [QS World University Rankings 2022]

3. Ranked 4th among the world’s top universities founded in the last 50 years

   [QS Top 50 Under 50]

We need Data Science talents to help shape a Smarter Hong Kong.

Dr. Ernest LO
Founder and CEO, Future Impact Lab Ltd.

CURRICULUM

Data Science Project

Apply your knowledge and showcase your data science capabilities

Major Elective Courses

Freedom to follow your own path and interests

You may make use of the free electives to gain domain knowledge in specific areas or even enrich your studies with a minor

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Data Science Courses

Fundamental courses to start your study in data science

- Data Mining
- Convex Optimization
- Statistical Methods and Data Analysis

- Data Visualization
- Artificial Intelligence
- Fundamentals of Machine Learning

Gateway Education Courses

Required courses to build the foundation

- Calculus
- English and Chinese
- Computer Programming

- Linear Algebra
- Introduction to Data Science
- Probability and Statistics

Data Science DEEP

The programme provides essential trainings like quantitative knowledge, statistics, data mining technology and computing tools for emerging real-world applications.

In an inter-professional setting, students are given the tools to build theoretical and methodological knowledge in data science, communication skills and ethic awareness. There are three flexible modules of advanced knowledge:

- Artificial Intelligence (AI)
- Social Media Analytics
- Statistical Learning

Data Science PLUS

The programme offers solid foundation in data science and intelligent systems, where students will learn to analyse, manage and improve enterprise-class systems using big data. Graduates will be equipped with necessary tools and skills to solve emerging real-world application problems and become big data professionals in the following fields:

- FinTech
- Industrial AI
- Internet of Things (IoT)
- Smart City