



Department of Biostatistics

香港城市大學  
City University of Hong Kong

**NEW**

# Master of Science in Biostatistics

## 理學碩士(生物統計學)

***Advancing your career in the  
data-intense era through Biostatistics!***

- A brand new programme with first intake in 2022
- Emphasizes on ***One Health*** approach training
- Comprehensive training in the principles and applications of statistics in ***biological science*** and ***public health***
- Covers areas in ***probability and statistical theory with a research focus***
- UGC Fellowship opportunities for local students up to HK\$120,000 each

1-Year Full-time

2-Year Part-time

2022/23 Intake

Programme Code: P97



Enquiry  
Department  
of Biostatistics

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Spanish Flu

COVID-19

transmissions: 1.5-3.5

fatality rate: 0.7-3.4%

rotavirus

swine flu

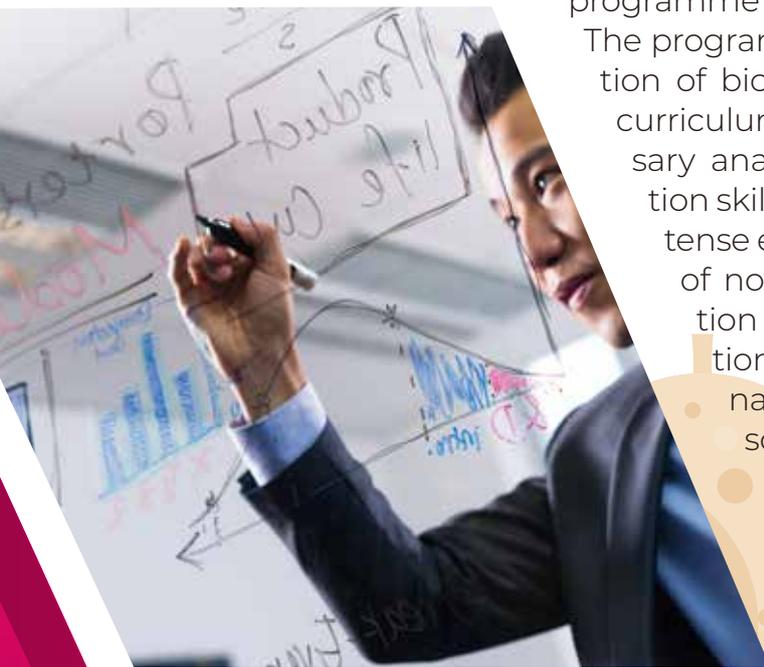
## About the Programme

The **Department of Biostatistics** was established on 1 July 2021. As the first of its kind in Hong Kong, it is uniquely positioned under the College of Science, City University of Hong Kong to achieve a vision of advancing health data science, enhancing collaborations with existing experts in data science, public health and veterinary epidemiology, as well as synergising interdisciplinary education and research across the University.

The **Master of Science in Biostatistics** is a new programme offered with first intake in 2022/23. The programme aims to train the next generation of biostatisticians through an innovative curriculum and equip them with the necessary analytical, leadership and communication skills to meet the challenges of a data-intensive era. It will help foster the development of novel statistical theory and the application of state-of-the-art data analytical solutions for problems in public health, veterinary epidemiology and the biomedical sciences.

Comprehensive training in the principles and applications of statistics in biological science and public health will be provided. Students are trained in Biostatistics using One Health approach to enhance their knowledge, abilities and professional capabilities to solve the interdisciplinary health problems posed by emerging medical and public health issues.

Graduates of the programme, whom are envisaged to be in high demand following the increasing global concerns over public health and the rapid expansion of the pharmaceutical industry in China, will be qualified to pursue careers involving biomedical and public health in government, biotech companies, and national/international research institutions. There is a severe shortage of trained biostatisticians in the market. And it is expected that there will be an increase in employment opportunities in public health for biostatisticians due to the COVID-19 pandemic.



# Programme Structure

Students are required to complete

**30 credit units** for graduation.

**21**  
credit  
units

## Core Courses

- Introduction to Biostatistics in One Health
- Principles of One Health and Epidemiology
- Probability
- Statistical Computing
- Advanced Methods in Biostatistics
- Statistical Inference
- Communication and Project Study

**9**  
credit  
units

## Elective Courses

- Time Series Analysis
- Spatial Data Analysis
- Statistical Methods for Categorical Data Analysis
- Introduction to Statistical Learning
- Computational Biology, Experimental Design and Data Science

*\*each course carries 3 credits*

*The offering of elective courses is  
subject to change without prior notice*

## Tuition Fee

**HK\$6,400**

per credit

## Career Prospect

Graduates can pursue careers, for example, in bio-medical and public health studies in government, biotechnology companies and national/international research institutions. The programme also provides the necessary academic preparation for those who wish to pursue PhD-level training in biostatistics at a later date.

