MSc in Data Science and Business Statistics

Department of Statistics
The Chinese University of Hong Kong
A Two-Year Part-Time Taught Programme
Overview

The programme is organised by the Department of Statistics at the Chinese University of Hong Kong. It focuses on data analysis skills and explores core areas of applied and business statistics. This is a part-time taught programme that is based primarily on coursework. Students must complete a minimum of 8 elective courses. Each course consists of a three-hour lecture each week throughout a term of 14 weeks. Classes are held on weekday evenings or Saturday afternoons. The expected completion time is two years.

The programme serves a wide range of audiences. It will be suitable for executives who need to interpret statistical results to define policies; for professionals from both the private and public sectors who are obliged to collect and analyse data; and for educators and practitioners in education and public health agencies who appreciate the effective use of data as a crucial element for enhancing the quality of society.

About the Department of Statistics

The Department of Statistics at the Chinese University of Hong Kong was founded in 1982. It is committed to spearheading the design of high-quality and up-to-date statistical education for the community. The Department offers three undergraduate programmes, three research postgraduate programmes leading to MPhil and PhD degrees, and two taught postgraduate programmes, MSc in Data Science and Business Statistics and MSc in Risk Management Science.

Coursework Requirement

Students have to complete a minimum of 8 electives to graduate,

STAT5101 Foundations of Data Science
STAT5102 Regression in Practice
STAT5103 High-dimensional Data Analysis
STAT5104 Data Mining
STAT5105 Applied Survival Data Analysis
STAT6101 Statistics for Management
STAT6102 Stochastic Modelling
STAT6103 Simulations and Statistical Computing
STAT6104 Financial Time Series
STAT6105 Basic Actuarial Principles and their Applications
STAT6106 Applied Bayesian Methods
STAT6107 Selected Topics on Data Science and Business Statistics
STAT6108 Official Statistics and Structural Equation Modelling
RMSC5101 Statistical Methods in Risk Management and Finance
RMSC6001 Interest Rates and Fixed Incomes Risk Management
RMSC6004 Special Topics in Risk Management
RMSC6005 Special Topics in Quantitative Finance

Course descriptions are available at Department website http://www.stat.cuhk.edu.hk/Programmes/PostgraduateStudies.aspx

Other University Requirements

- Students must fulfill the Term Assessment Requirement of the Graduate School. For details, please refer to the Postgraduate Student Handbook
- Students must have attained a cumulative GPA of at least 2.0
Schedule and Period of Study

The programme is offered on a part-time basis. Students who take two courses each term can complete their studies in two years. Each course consists of a three-hour lecture each week throughout a term of 14 weeks. Classes are held on weekday evenings or Saturdays in CUHK campus.

Assessment

There is no comprehensive examination for the programme. Students shall be assessed on the basis of their performance in the courses they enroll. Criteria for assessment may include any combination of the following: assignments, mid-term, examination, class work, project or any other specified criteria.

Tuition Fee

$60,000 per annum for 2018 admission

Admission Requirements

Applicants shall have,

• graduated from a recognized university and obtained a Bachelor’s degree, normally with honours not lower than Second Class

• fulfilled the University’s minimum English language requirements for admission to postgraduate programmes (more information at www.gs.cuhk.edu.hk)

Application Procedures

1. Submit an online application at the Graduate School website www.gs.cuhk.edu.hk

2. Submit supporting documents to the Department of Statistics, Room 119, Lady Shaw Building, the Chinese University of Hong Kong by the application deadline. Supporting documents required are,
   a. Copy of certificates
   b. Official transcripts of all tertiary level studies. Official transcripts should be sent directly to the Programme in a sealed envelope, except for CUHK qualifications where photocopies of transcripts are accepted.
   c. Proof of English Language proficiency
   d. Confidential recommendations from two referees
   e. Copy of HKID card or other identity document

Application Deadline

28 February 2018
Words from Alumni

The DSBS Programme has taken me to a new horizon that broadens my views in the world of Statistics and provides the missing ingredients of my undergraduate business study. It also fosters and enhances my life-long learning mentality. The DSBS Programme has strengthened my skills in critical and analytical reasoning. These skills elevate my ability in marketing researches that is definitely beneficial to my career. I have no hesitation to recommend this programme to all academic, marketing and financial researchers.

Ronald Lee ’07
Sales & Marketing Manager
Defend Manufacturing Limited

Our Department has been using multiple regression analysis as a major tool in valuing a vast number of properties in Hong Kong annually for rating and government rent purpose. The demand for well-trained staff in data science and computer assisted mass appraisal (CAMA) technique is great.

By studying the DSBS Programme, I have learned the statistical methods for analyzing and interpreting data. The knowledge gained facilitates my daily work in handling multiple regression analysis and the result interpretation. The subjects themselves are really challenging, but with support and guidance from the teaching staff, an Arts student like me can still manage them without much difficulty.

Anita Ng ’10
Senior Valuations Surveyor
Rating and Valuation Department
HKSAR Government

The DSBS Programme enriched my life in many different ways. With diversified courses from Statistics for Management to Time Series, DSBS offers much to students both academically and in real life scenarios. DSBS equipped me not only with analytical tools but also understanding of the statistical theories behind. These allowed me to have deeper insights in the financial world.

DSBS offers a wide range of challenging and rewarding classes. Professors are very nice and kind, who makes climbing the learning curve for non-Mathematics majors like me much easier.

Felix Ho ’13
Assistant Manager
Standard Chartered Bank (HK) Limited

Thanks to the MSc DSBS Programme, I equipped myself with critical reasoning and advanced data analytic skills in my two-year study, which are much desired in the Age of Big Data. The courses were not only theoretical but also focused on applications. I would like to recommend this programme to those who want to acquire capabilities to gain deep insights from data.

Andrew Chan ’15
Operations Analyst
Asia Airfreight Terminal Company Limited