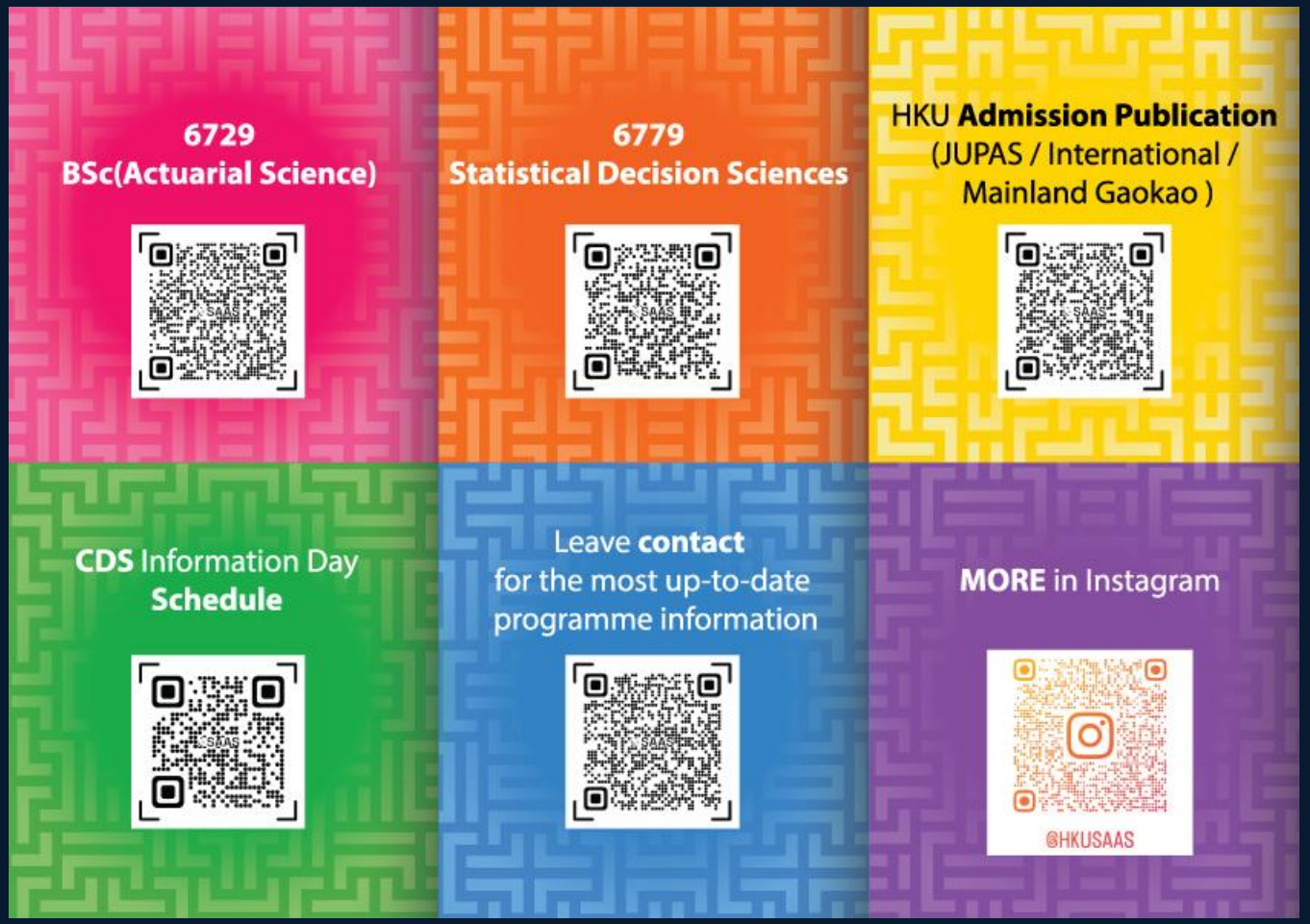
SCHOOL OF COMPUTING & DATA SCIENCE
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Statistical Decision Sciences

From Data to Decisions

Reason with evidence.
Act under uncertainty.



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Probability of Track
70–100%
50–70%
30–50%
10–30%
0–10%
Population at Risk
Critical Infrastructure
Hospitals
Transport
Power
Water
Projected Impact
EMERGENCY MANAGEMENT
DATA
RISK
PEOPLE
BETTER DECISIONS
HONG KONG RESILIENCE

AN INSPIRING APPLICATION

A storm is approaching. What should a city do?

A forecast is not yet a decision.
Leaders must combine uncertain evidence
with people, capacity, cost and consequences.

1 **PREDICT** — Where might the storm go?

2 **ASSESS** — Who and what are at risk?

3 **DECIDE** — When and where should action begin?

This is Statistical Decision Sciences:
Turning data and uncertainty into responsible action.



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School of Computing and Data Science • The University of Hong Kong

STATISTICS

Learn from data, quantify uncertainty and support evidence-based decisions.

ACTUARIAL SCIENCE

Apply probability, statistics and financial reasoning to understand and manage risk.

A HOME FOR QUANTITATIVE STUDY

Statistical Decision Sciences	Decision Analytics • Risk Management • Statistics (as Professional Cores)
Actuarial Science	Professional preparation for actuarial and risk careers
Wider study options	Majors and/or minors in Decision Analytics, Risk Management, and Statistics

More on https://saasweb.hku.hk/

A LEGACY OF QUANTITATIVE EDUCATION

Milestones of the Department

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From statistics in the social sciences to actuarial science, risk management and decision analytics.

1967
Established
Faculty of Social Sciences

1987
Master of Statistics
Programme launched

1994
Actuarial Science
BSc programme launched

1998
New department name
Statistics and Actuarial Science

2004
Risk Management
Major launched

2011
Professional recognition
Center of Actuarial Excellence

2015
Decision Analytics
Major launched



More on **https://saasweb.hku.hk/**

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Data are everywhere. Decisions are harder.

Modern organisations do not need more numbers. They need people who can reason with evidence and uncertainty.



Statistical Decision Sciences connects all three.

It develops logical thinking, problem formulation, quantitative analysis and statistical reasoning for real-world decisions.



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One degree. Three professional directions.

Explore a common quantitative foundation, then develop depth in the area that fits your interests.

Decision Analytics

Machine learning
Statistical modelling
Data visualisation
Optimised decisions

Risk Management

Risk assessment
Financial modelling
Governance
Uncertainty

Statistics

Probability
Inference
Time series
Bayesian learning



Students may switch between the three Professional Cores during their studies.

A CLEAR DISTINCTION

More than data science. More than AI.

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The programme focuses on the reasoning that turns predictions into responsible decisions.

DATA SCIENCE	What can we learn from data?
ARTIFICIAL INTELLIGENCE	What can a machine predict or generate?
STATISTICAL DECISION SCIENCES	**Given the evidence and uncertainty, what should we do?**

The competitive advantage: human reasoning strengthened by statistical evidence.

WHAT YOU WILL LEARN

A toolkit for decisions in an uncertain world.

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Rigorous mathematics and statistics, strengthened by computation and applied problem-solving.

01 Statistical reasoning

Understand what evidence supports

02 Probability modelling

Quantify uncertainty

03 Machine learning

Build and evaluate predictive models

04 Programming & data

Structure, analyse and visualise information

05 Decision making

Turn analysis into actions

06 Communication

Explain findings clearly

Build foundations. Choose depth. Apply what you learn.

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A four-year, 240-credit curriculum combining university learning, disciplinary study and an integrative capstone.



1 FOUNDATION	2 CORE METHODS	3 PROFESSIONAL DEPTH	4 INTEGRATION
Mathematics Probability Programming	Statistical Inference Modelling	Decision Analytics / Risk Management / Statistics	Advanced electives Capstone Optional internship

UNIVERSITY REQUIREMENTS

Languages • Common Core • AI literacy

DISCIPLINARY STUDY

Compulsory core + selected electives

CAPSTONE OPTIONS

Group project • Internship • Individual project

Normally completed over 8 semesters, with a standard study load of 60 credits per year.

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DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

BStat(DA)

12 August 2026

BStat (Professional Core in Decision Analytics) Suggested Study Plan A

Year	One		Two		Three		Four	
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary Core Courses	**MATH1013** University Mathematics II **SDST1600** Statistics: Ideas and Concepts	**COMP1117** Computer Programming	**COMP2113** Programming Technologies **SDST2601** Probability and Statistics I	**COMP2118** Data Structures and Algorithms Essentials **SDST2602** Probability and Statistics II	**MATH3900** Optimization for AI and Data Analytics **SDST3600** Linear Statistical Analysis	**SDST3612** Statistical Machine Learning	**SDST4610** Bayesian Learning	**SDST4609** Big Data Analytics **SDST4611** High-Dimensional Statistical Learning
Disciplinary Elective Courses		*List A (for general study)* **MATH2012** Fundamental Concepts of Mathematics or *List B (for advanced study)* **MATH2101** Linear Algebra I	**MATH2014** Multivariable Calculus and Linear Algebra **MATH2211** Multivariable Calculus		At least 24 credits (4 courses) selected from the following courses: **COMP3251** Algorithm Design **COMP3252** Algorithm Design and Analysis **COMP3278** Introduction to Database Management Systems **COMP3407** Scientific Computing **SDST3620** Modern Nonparametric Statistics **SDST3621** Statistical Data Analysis **SDST3622** Data Visualization **SDST4011** Natural Language Processing **SDST4023** Medical Image Analysis **SDST4601** Time-Series Analysis **SDST4602** Multivariate Data Analysis **SDST4612** Interpretable Machine Learning **SDST4613** Causal Inference **SDST7609** Research Methods in Statistics		
Capstone Experience Courses					At least 6 credits selected from the following courses: **SDST3799** Directed Studies in Statistics **SDST4710** Capstone Experience for Statistics Undergraduates **SDST4766** Statistics Internship **SDST4799** Statistics Project (12 credits)			
Other Courses	**AILT1001** Artificial Intelligence Literacy I (3 credits)		**AILT9019** AI Literacy for Computing and Data Science (3 credits)					
Common Core Courses	Six common core courses (36 credits) within the first three years							
Language Courses	**CAES1001** Academic Communication in English (0 credits) (offered in both semesters)		**CAES9821** Professional & Technical Communication for Statistical Sciences (offered in both semesters)		**CDSC9001** Practical Chinese for Computing and Data Science Students (to be confirmed) (offered in both semesters)			

Note 1: This suggested study plan is for students' reference only. Students can choose another subclass if a course is also offered in different semesters/time slots. However, students are reminded to check the course pre-requisites when planning their studies ahead, whilst course offering semester and availability are subject to changes every year. Please refer to the Student Handbook, Regulations and Syllabus for more details.
Note 2: Students may also choose to take more Disciplinary Core or Elective courses as free electives than the number stipulated above within the allowed course load.
Note 3: If there are any courses mutually exclusive to any Disciplinary Core courses, students must take the course stated in the curriculum to fulfil the degree requirement of the Professional Core. Course replacement should only be applied for the other Major(s) or Minor(s).
Note 4: Please refer to the Student Handbook for details about exemption of language courses if applicable.

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THE UNIVERSITY OF HONG KONG
DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

BStat(RM)

12 August 2026

BStat (Professional Core in Risk Management) Suggested Study Plan A

Year	One		Two		Three		Four	
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary Core Courses	**MATH1013** University Mathematics II **SDST1600** Statistics: Ideas and Concepts	**COMP1117** Computer Programming	**SDST2601** Probability and Statistics I	**SDST2602** Probability and Statistics II **SDST3615** Practical Mathematics for Investment	**SDST3600** Linear Statistical Analysis **SDST3609** The Statistics of Investment Risk **SDST3618** Derivatives and Risk Management		**SDST4601** Time-Series Analysis **SDST4610** Bayesian Learning	**SDST4607** Credit Risk Analysis **SDST4608** Market Risk Analysis
Disciplinary Elective Courses		*List A (for general study)* **MATH2012** Fundamental Concepts of Mathematics **MATH2014** Multivariable Calculus and Linear Algebra or *List B (for advanced study)* **MATH2101** Linear Algebra I **MATH2211** Multivariable Calculus	At least 24 credits (4 courses) selected from the following courses: **SDST3602** Statistical Inference **SDST3603** Stochastic Processes **SDST3610** Risk Management and Insurance **SDST3612** Statistical Machine Learning **SDST3655** Survival Analysis **SDST3910** Financial Economics I **SDST3911** Financial Economics II **SDST4603** Current Topics in Risk Management **SDST4606** Risk Management and Basel Accords in Banking and Finance **SDST4614** Quantitative Risk Management **SDST7609** Research Methods in Statistics **SDST7610** Probability Theory				
Capstone Experience Courses					At least 6 credits selected from the following courses: **SDST3799** Directed Studies in Statistics **SDST4710** Capstone Experience for Statistics Undergraduates **SDST4766** Statistics Internship **SDST4799** Statistics Project (12 credits)			
Other Courses	**AILT1001** Artificial Intelligence Literacy I (3 credits)		**AILT9019** AI Literacy for Computing and Data Science (3 credits)					
Common Core Courses	Six common core courses (36 credits) within the first three years							
Language Courses	**CAES1001** Academic Communication in English (0 credits) (offered in both semesters)		**CAES9821** Professional & Technical Communication for Statistical Sciences (offered in both semesters)		**CDSC9001** Practical Chinese for Computing and Data Science Students (to be confirmed) (offered in both semesters)			

Note 1: This suggested study plan is for students' reference only. Students can choose another subclass if a course is also offered in different semesters/time slots. However, students are reminded to check the course pre-requisites when planning their studies ahead, whilst course offering semester and availability are subject to changes every year. Please refer to the Student Handbook, Regulations and Syllabus for more details.
Note 2: Students may also choose to take more Disciplinary Core or Elective courses as free electives than the number stipulated above within the allowed course load.
Note 3: If there are any courses mutually exclusive to any Disciplinary Core courses, students must take the course stated in the curriculum to fulfil the degree requirement of the Professional Core. Course replacement should only be applied for the other Major(s) or Minor(s).
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DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE

BStat(ST)

12 August 2026

BStat (Professional Core in Statistics) Suggested Study Plan A

Year	One		Two		Three		Four	
Semester	One	Two	One	Two	One	Two	One	Two
Disciplinary Core Courses	**MATH1013** University Mathematics II **SDST1600** Statistics: Ideas and Concepts	**COMP1117** Computer Programming	**SDST2601** Probability and Statistics I	**SDST2602** Probability and Statistics II	**SDST3600** Linear Statistical Analysis **SDST3603** Stochastic Processes **SDST3620** Modern Nonparametric Statistics	**SDST3621** Statistical Data Analysis	**SDST3602** Statistical Inference **SDST4610** Bayesian Learning	**SDST4602** Multivariate Data Analysis
Disciplinary Elective Courses		*List A (for general study)* **MATH2012** Fundamental Concepts of Mathematics or *List B (for advanced study)* **MATH2101** Linear Algebra I	**MATH2014** Multivariable Calculus and Linear Algebra **MATH2211** Multivariable Calculus	At least 30 credits (5 courses) selected from the following courses in *List S1* and *List S2*. At least 6 credits (1 course) in *List S1 (mainstream statistical topics)*: **SDST3612** Statistical Machine Learning **SDST3655** Survival Analysis **SDST4601** Time-Series Analysis At least 12 credits (2 courses) in *List S2 (statistical applications and other advanced topics)*: **SDST3021** Modern Biostatistics **SDST3604** Design and Analysis of Experiments **SDST3606** Business Logistics **SDST3607** Statistics in Clinical Medicine and Bio-medical Research **SDST3608** Statistical Genetics **SDST3613** Marketing Analytics **SDST3617** Sample Survey Methods **SDST4611** High-Dimensional Statistical Learning **SDST4613** Causal Inference **SDST7609** Research Methods in Statistics **SDST7610** Probability Theory			
Capstone Experience Courses					At least 6 credits selected from the following courses: **SDST3799** Directed Studies in Statistics **SDST4710** Capstone Experience for Statistics Undergraduates **SDST4766** Statistics Internship **SDST4799** Statistics Project (12 credits)			
Other Courses	**AILT1001** Artificial Intelligence Literacy I (3 credits)		**AILT9019** AI Literacy for Computing and Data Science (3 credits)					
Common Core Courses	Six common core courses (36 credits) within the first three years							
Language Courses	**CAES1001** Academic Communication in English (0 credits) (offered in both semesters)		**CAES9821** Professional & Technical Communication for Statistical Sciences (offered in both semesters)		**CDSC9001** Practical Chinese for Computing and Data Science Students (to be confirmed) (offered in both semesters)			

Note 1: This suggested study plan is for students' reference only. Students can choose another subclass if a course is also offered in different semesters/time slots. However, students are reminded to check the course pre-requisites when planning their studies ahead, whilst course offering semester and availability are subject to changes every year. Please refer to the Student Handbook, Regulations and Syllabus for more details.
Note 2: Students may also choose to take more Disciplinary Core or Elective courses as free electives than the number stipulated above within the allowed course load.
Note 3: If there are any courses mutually exclusive to any Disciplinary Core courses, students must take the course stated in the curriculum to fulfil the degree requirement of the Professional Core. Course replacement should only be applied for the other Major(s) or Minor(s).
Note 4: Please refer to the Student Handbook for details about exemption of language courses if applicable.

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The same reasoning travels across industries.

Every sector faces choices under uncertainty. Statistical Decision Sciences helps make those choices defensible.

FINANCE • How much risk should a bank take?

HEALTH • Which treatment is supported by evidence?

BUSINESS • Which action creates the best outcome?

PUBLIC POLICY • How should resources be allocated?

AI • Can we trust this model's prediction?

CLIMATE • How should we plan for uncertain future?



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Theory that works in practice.

Build the mathematical foundation, then apply it through modelling, computation and multidisciplinary problems.

1 **FOUNDATION**

Mathematics • Probability • Programming

2 **METHODS**

Inference • Modelling • Machine Learning

3 **APPLICATION**

Risk • Business • Finance • Research

4 **DECISION**

Interpret • Communicate • Act



SAAS Professional Development (SAAS-PD)

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Exclusive career-related support for SAAS (i.e., Statistical Decision Sciences and Actuarial Science) students.

KNOW YOURSELF
Recognise your strengths and development needs

→

KNOW THE INDUSTRY
Understand professions, roles and workplaces

→

SEIZE OPPORTUNITIES
Build skills and confidence for career opportunities

CAREER CONSULTATION	CV and cover letter support Interview preparation
PROFESSIONAL PREPARATION	Workplace etiquette Case analysis and group interview
INDUSTRY CONNECTIONS	Career talks • Company visits Mentorship Programme Practitioner and alumni sharing
INTERNSHIP & RECRUITMENT	Department internship support Career fair and job opportunities

ACADEMIC KNOWLEDGE + PROFESSIONAL READINESS

Scholarships for BStat students

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Nine awards and scholarship schemes listed in the 2027–28 programme brochure.

Statistical Decision Sciences (6779) Entrance Scholarship

Up to 10 awards

Only for 6779 BStat students

School of Computing and Data Science Entrance Scholarship

For top-performing students

HK$200,000 each

QRT-HKU Scholarships

Up to 5 awards

Awarded to first year students

Statistics and Actuarial Science (SAAS) Scholarships

18 awards each year

Awarded annually based on academic merits

Dr Patrick S C Poon Scholarship in Statistics

4 awards to final year students

HK$50,000 each

Ho Kam Chiu Lo Lai Ching Memorial Scholarship

3 awards

HK$20,000 each

Saw Swee Hock Statistics Scholarship

2 awards

HK$5,000 each

Saw Prize in Statistics

For final year students

HK$8,000 each

YF Life Scholarship in Actuarial Science and Risk Management

For Actuarial Science / Risk Management

HK$15,000 each

* Selected awards are marked subject to approval. Eligibility, value and availability follow the applicable award regulations.

Learn, connect, contribute and explore.

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University life extends beyond lectures through peer learning, leadership, industry exposure and global opportunities.

PEER COMMUNITY

School Peer Advisers
Peer Tutor Scheme

Support fellow students while developing communication, presentation and leadership skills.

INDUSTRY & CAREERS

Internships
Career talks • Company visits

Connect academic learning with workplaces, practitioners and professional opportunities.

GLOBAL EXPOSURE

Exchange study
Overseas enrichment

Experience different countries, learning environments and perspectives.

DISCOVERY & CHALLENGE

Competitions
Research opportunities

Apply quantitative thinking, investigate questions and communicate solutions.

BUILD SKILLS • BUILD CONNECTIONS • BUILD YOUR UNIVERSITY EXPERIENCE

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Graduate with a quantitative mindset that travels.

Different Professional Cores open different starting points, with substantial overlap across analytics and decision roles.



DA

Data science
Strategy analytics

RM

Financial risk
Risk analysis

ST

Statistics
Research

COMMON DESTINATIONS

Banks & financial institutions
Technology & consulting
Government & public bodies
Research & postgraduate study
Business intelligence & planning

Your core develops depth. Your reasoning skills create mobility.

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From recent career survey…

DA

Commerce & Industry

Employer	Job Title
Alibaba Group	Data Analyst
Bank of America (BofA Securities)	Global Markets Analyst
Crédit Agricole Corporate and Investment Bank	Market Risk Trainee
GoGoX	Data Analyst and Scientist
SenseTime Group Inc.	Engineer
Tencent	Business Analyst
Organisation's name not reported	Graduate Analyst
Organisation's name not reported	Risk Analyst
Organisation's name not reported	Tutor

BSc (Decision Analytics)

Year	2025		2024	
Employment Situation	No.	%	No.	%
Employed	15	57.7%	15	55.6%
Unemployed	1	3.8%		
Further Studies	9	34.6%	11	40.7%
Not seeking employment	1	3.8%	1	3.7%
No. of respondent	26	100.0%	27	100.0%

RM

Commerce & Industry

Employer	Job Title
Deloitte Touche Tohmatsu Limited	Risk Analyst
Industrial and Commercial Bank of China Limited (Asia)	Investment Banking Analyst
OCBC Bank (Hong Kong)	Assistant Manager
OCBC Bank (Hong Kong)	Integrated Risk Analytics - Assistant
Prudential Hong Kong Limited	Manager
Shanghai Commercial Bank Limited	Officer
TAC Consulting Limited	Associate
Organisation's name not reported	IBD Corporate Finance Analyst
Organisation's name not reported	Officer

BSc (Risk Management)

Year	2025		2024	
Employment Situation	No.	%	No.	%
Employed	21	61.8%	15	71.4%
Further Studies	13	38.2%	1	4.8%
Emigrated / Returned to home country			3	14.3%
Not seeking employment			2	9.5%
No. of respondent	34	100.0%	21	100.0%

ST

Civil Service

Employer	Job Title
HKSAR - Census and Statistics Department	Statistical Assistant

Education

Employer	Job Title
The Chinese Foundation Secondary School	Assistant Teacher
The University of Hong Kong	Student Research Assistant

Commerce & Industry

Employer	Job Title
881 Technology Co., Limited	Occupation's name not reported
Orient Overseas Container Line Limited	Operation Manager
The Hongkong and Shanghai Banking Corporation Limited (HSBC)	Graduate Analyst
The Pacific Life Assurance Co., Ltd.	Administrative Assistant
Organisation's name not reported	Graduate Trainee

BSc (Statistics)

Year	2025		2024	
Employment Situation	No.	%	No.	%
Employed	11	47.8%	11	55.0%
Further Studies	12	52.2%	8	40.0%
Not seeking employment			1	5.0%
No. of respondent	23	100.0%	20	100.0%

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An internationally recognised statistical foundation.

Professional recognition helps students connect academic preparation with a wider statistical community.



ALSO

RSS
Data Analyst
academic requirements
through specified courses

HKU has Accredited University status from the Royal Statistical Society (RSS).
Graduates completing a Professional Core in Decision Analytics, Risk Management or Statistics are qualified to become a Graduate Statistician through the stated route.

Accredited University | ROYAL STATISTICAL SOCIETY
DATA | EVIDENCE | DECISIONS

Quality Mark | ROYAL STATISTICAL SOCIETY
DATA | EVIDENCE | DECISIONS

ADMISSION FORMULA

How is the JUPAS score calculated?

2027–28 intake • Programme code 6779

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1.5 × MATHEMATICS + BEST 4 SUBJECTS = JUPAS SCORE

Mathematics receives extra weighting.

The Best 4 may include M1 or M2.

MINIMUM ENTRANCE REQUIREMENTS

ENGLISH	CHINESE	MATHEMATICS	CITIZENSHIP & SOCIAL DEVELOPMENT	TWO CATEGORY A ELECTIVES
Level 3	Level 3	Level 4	Attained	Level 3

WHAT TO NOTICE

Strong Mathematics results matter twice:
They satisfy the programme requirement and receive a 1.5 weighting in the score.

M1/M2 is not compulsory, but it can be counted among the Best 4 subjects.

Quantitative skills with broad career mobility.

Demand spans private, public, research and professional sectors.

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WHY THE OUTLOOK IS FAVOURABLE

A more quantitative and data-focused economy needs people who can:

- **ANALYSE** complex data
- **QUANTIFY** risk and uncertainty
- **INTERPRET** evidence responsibly
- **DECIDE** with clarity

More favourable opportunities in decision analytics, risk management and statistics.

WHERE GRADUATES CAN BUILD CAREERS

BANKING & FINANCE

Quantitative analysis • credit • market and financial risk

TECHNOLOGY & DATA

Data analytics • machine learning • business intelligence

GOVERNMENT & PUBLIC BODIES

Official statistics • policy analysis • research

CONSULTING & INSURANCE

Risk advisory • analytics • actuarial-related roles

HEALTHCARE & RESEARCH

Biostatistics • research support • evidence generation

POSTGRADUATE & ACADEMIA

Statistics • data science • risk • interdisciplinary research

Career mobility comes from combining statistical reasoning, computation, domain knowledge and communication.

From data to evidence to confident decisions.

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LEARN

Statistics • probability
programming • machine learning

SPECIALISE

Decision Analytics
Risk Management • Statistics

APPLY

Finance • health • AI
policy • climate • business

GROW

Professional development
experience • careers



AI can predict. You decide.

Statistical Decision Sciences builds the reasoning to choose well under uncertainty.

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Statistical Decision Sciences

From Data to Decisions

Reason with evidence.
Act under uncertainty.

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