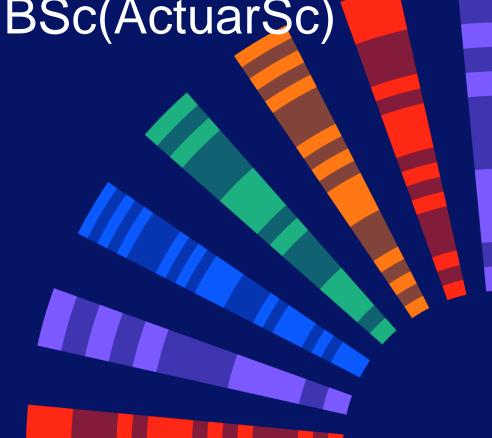
Admission Talk for HKU Actuarial Science - BSc(ActuarSc)

JUPAS Programme Code: 6729

25 October 2025





About School of Computing & Data Science (CDS)

Empowering Changemakers of the Future

- Established in 2024 at The University of Hong Kong
- Encompasses three departments: Al & Data Science, Computer Science, and Statistics & Actuarial Science
- Aims to foster innovation, collaboration, and excellence in the vital fields of
 - Computing
 - Statistical Sciences
 - Data Science
 - Artificial Intelligence





International rankings of HKU



#2
in Asia

#11

in the world

#18

Data Science and Artificial Intelligence

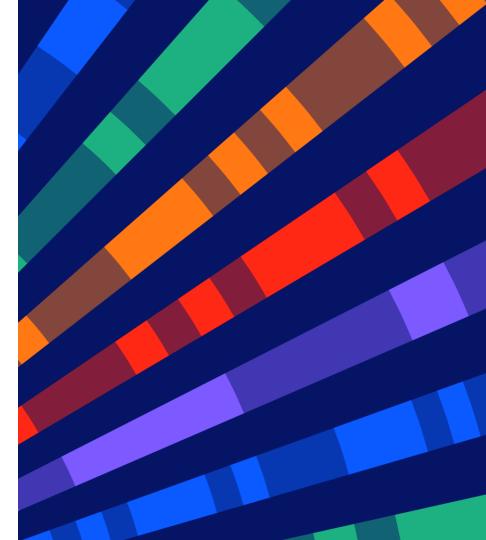


#6
in Asia

#33 in the world



The University of Hong Kong School of Computing & Data Science



Programme Overview

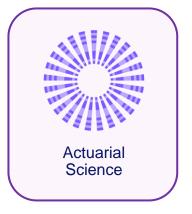












精算學



What is Actuarial Science? 什麽是精算?

• Actuarial science is the discipline that applies modern mathematical (數學) and statistical (統計) methods to assess and manage risk (風險) in the insurance (保險) and finance (金融) industries

• Actuarial science includes a number of interrelating subjects, including probability (概率) and statistics (統計), data science (數據科學), finance (金融), and economics (經濟)



Actuary's Work 精算師的工作

- Actuaries are **experts and professionals**, qualified in this field through examinations and experience, that utilize actuarial methods and techniques to address future financial risk
- 精算師是運用精算方法和技術去解決未來財務風險的專家和專業人士





Actuary's Work 精算師的工作

The University of Hong Kong

- Actuaries are the **leading professionals** in finding ways to manage risk.
 - It takes a combination of strong analytical skills and business knowledge to manage today's complex risks facing our society.
- Actuaries are key players on the management team of companies that deal with risk.
 - In a fast-changing world, with emerging risks and the need for more creative ways to tackle them, there are constant opportunities for personal and professional growth.
- Actuaries are the **analytical backbone** of our society's financial security programs.

(Be An Actuary)



保險公司的後勤部門設有不同的工作崗位,不少崗位是由精算師出任。大家又是否知道,精算師在一間保險公司內,是擔任什麼角色呢?

其實,精算師於保險行業一直擔當著重要角色。他們的工作範圍廣泛,從新保險產品的設計,保費定價及準備金預算,到為保險公司進行風險評估及制定投資策略等,都離不開精算師的參與。隨著風險為本資本制度(RBC regime)的實施,以及國際財務報告準則第17號(IFRS 17)將於2023年生效,保險公司對於富經驗的精算師,更加是求賢若渴。

就 而言,於高級管理層當中,便有7位具有精算師資格,包括副行政總裁暨首席財務官、首席 產品總監、首席風險總監、首席投資及資產負債管理總監、首席精算師、首席資本管理總監以及中國項 目負責人。此外,超過20位同事亦擁有精算師資格,於不同部門中擔當著重要崗位。各人憑著其專業知識,在瞬息萬變的市場環境中,為公司制定良策部署,做好風險管理,達致財務穩健,為保單持有人謀取最佳利益。

Source: https://www.stheadline.com/columnists/lifestyle/3179047/%E5%AF%8C%E9%80%9A%E4%BF%9D%E9%9A%AA-%E7%B2%BE%E7%AE%97%E5%B8%AB%E6%96%BC%E4%BF%9D%E9%9A%AA%E5%85%AC%E5%8F%B8%E8%88%89%E8%B6%B3%E8%BC%95%E9%87%8D%E7%9A%84%E8%A7%92%E8%89%B2%E5%9F%8E%E4%B8%AD%E7%86%B1%E4%BA%8B



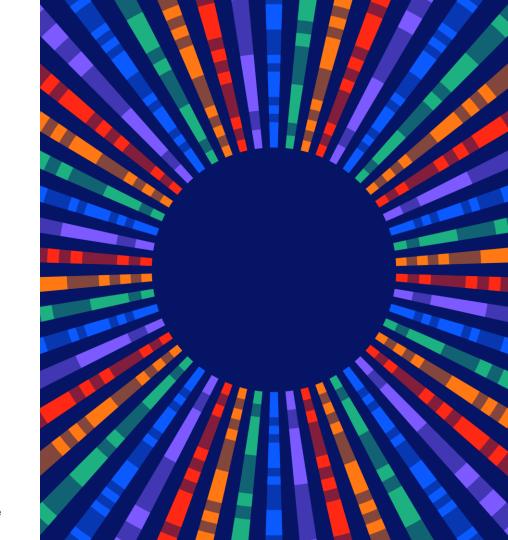
How to Become an Actuary?

怎樣成為一個精算師?

Actuaries

Risk is Opportunity.®





Becoming an Actuary 成為一個精算師

• Admitted into one of the professional bodies in the US, UK, or Australia 考取美國、英國、澳洲等地其中一個專業資格

- There are usually two stages 一般分兩個階段
 - 1. Associateship (準/副精算師會員)
 - 2. Fellowship (精算師會員)

• Generally takes 5 – 8 years 需時大概 5 – 8 年





Typical Exam Systems 典型考試制度

Fellowship



Specialist examinations, professionalism



Associateship



Fundamentals of actuarial practice, actuarial control cycle, investment practice, professionalism



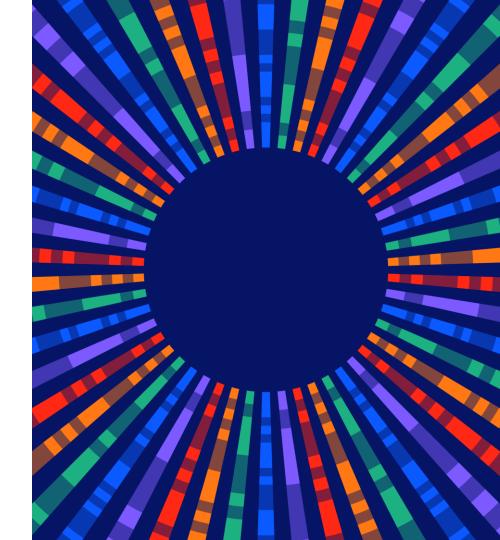
Actuarial models, statistics, data analytics, economics, corporate finance, etc.





Top 6 Reasons

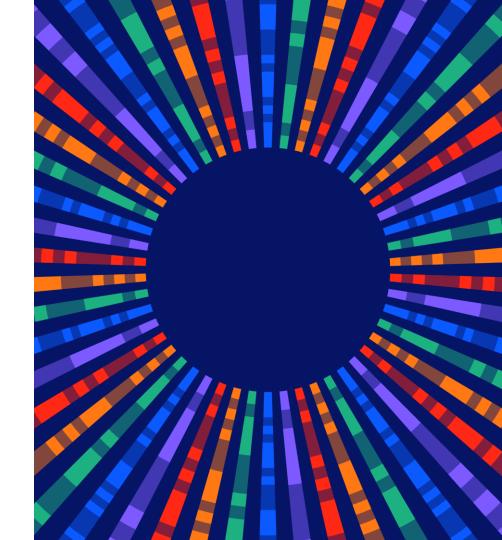
you should choose HKU Actuarial Science





Reason #1

Excellent Employment Prospect





Economics & Mathematics & Business » Actuarial Science » Asia

Best Universities for Actuarial Science in Asia

Updated: March 02, 2025 EduRank

Below is a list of best universities in Asia ranked based on their research performance in Actuarial Science. A graph of 735K citations received by 78.7K academic papers made by 355 universities in Asia was used to calculate publications' ratings, which then were adjusted for release dates and added to final scores.

We don't distinguish between undergraduate and graduate programs nor do we adjust for current majors offered. You can find information about granted degrees on a university page but always double-check with the university website.

1. University of Hong Kong

China | Hong Kong

For Actuarial Science

#1 in China

#22 in the World



Source:

https://edurank.org/business/actuarial-science/as/

Acceptance Rate 17% Enrollment 21,652 Founded 1911



The University of Hong Kong School of Computing & Data Science



Prospect of Actuaries 精算師出路多!

• SAS

• Actuarial qualification is recognized worldwide 精算專業資格,世界通行









Q Search jobs or companies

JOB SEARCH

AREER PATHS

SUCCEEDING AT WORK

DIVERSITY AND INCLUSION

ADVICE / CAREER PATHS / EXPLORING CAREERS

15 High-Paying Jobs That'll Be in Demand for Years to Come

by <u>Deanna</u> <u>deBara</u> Updated 10/8/2024









Source:

https://www.themuse.com/advice/high-paying-jobs-in-demand-for-future



Median salary in 2023: \$120,000

Projected growth rate between 2023 and 2033: 21.8%



Actuaries typically work for insurance companies and are responsible for evaluating risk. They use math, data, and statistics to determine whether their employer should issue a policy to a potential customer and what the premium should be—whether that's an individual or a business.

As an actuary, you'd make evaluations regarding health, life, automobile, homeowners, medical malpractice, and workers' compensation insurance, as well as retirement benefits and other investments.

A degree in actuarial science (which focuses on using math and statistical modeling to assess risk) or a related field, such as math or statistics, is a must. Plus, actuaries need to pass a series of rigorous exams over the course of several years in order to be certified by the Casualty Actuarial Society (CAS) or the Society of Actuaries (SOA).



These are the 6 fastest-growing jobs of the decade that pay over \$100,000



Published Wed, Sep 29 2021-3:10 PM EDT

Job	Projected Employment Change, 2020-2030	Median Pay
Nurse practitioners	52.2%	\$111,680
Information security analysts	33.3%	\$103,590
Medical and health services managers	32.5%	\$104,280
Physician assistants	31.0%	\$115,390
Actuaries	24.5%	\$111,030
Software developers, software quality assurance analysts and testers	22.2%	\$110,140

Source: Bureau of Labor Statistics • Get the data

Source: https://www.cnbc.com/2021/09/29/the-6-fastest-growing-jobs-of-the-decade-that-pay-over-100000.html





CONTACT US SITEMAP

整飾

Enter search keyword(s)

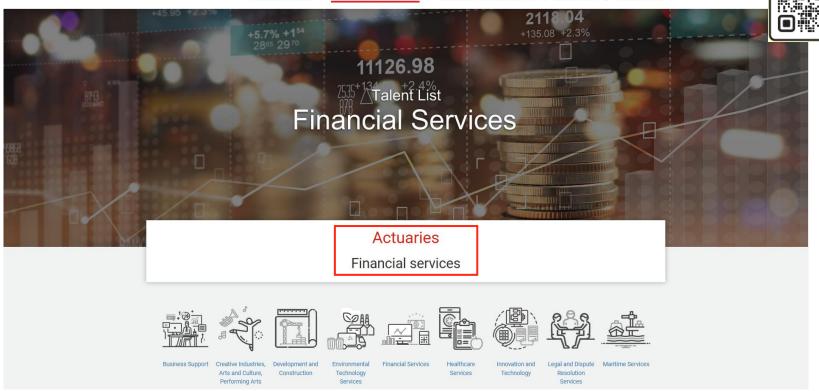
WHY HONG KONG

TALENT LIST HONG KONG

IMMIGRATION FACILITATION

RESOURCES

USEFUL LINKS





HK Salary Survey 2025

POSITION TITLE	25TH PERCENTILE	50TH PERCENTILE	• 75TH PERCENTILE
Assistant Actuarial Analyst / Actuarial Analyst / Senior Actuarial Analyst	HK\$249,000	HK\$436,000	HK\$603,000
Assistant Manager / Manager - Actuarial	HK\$540,000	HK\$720,000	HK\$900,000
Senior Manager - Actuarial	HK\$884,000	HK\$1,060,000	HK\$1,248,000
Sub Team Head / Director - Actuarial	HK\$1,248,000	HK\$1,508,000	HK\$1,747,000
Appointed Actuary / Senior Director / Chief Actuary	HK\$1,976,000	HK\$2,308,000	HK\$2,704,000
CFO - Insurance / Actuarial	HK\$2,028,000	HK\$2,392,000	HK\$3,016,000



(Robert Half Hong Kong Salary Guide 2025)



UK Salaries



^{*}Salaries based on jobs across the UK. Source: **Salary & Recruiting Trends 2025** | **Digital Guide** | **Hays**

Source: https://www.insurancecareers.co.uk/profession-overview/insurance-salary-survey-2025-hays/



2024 Actuarial Science Graduates

SAS

• Employed 77.2%

Further Studies 17.5%

• Mean Salary

• Basic: \$30,324

• Gross: \$31,144

Number of Full-time Job Offers

• One: 63.3%

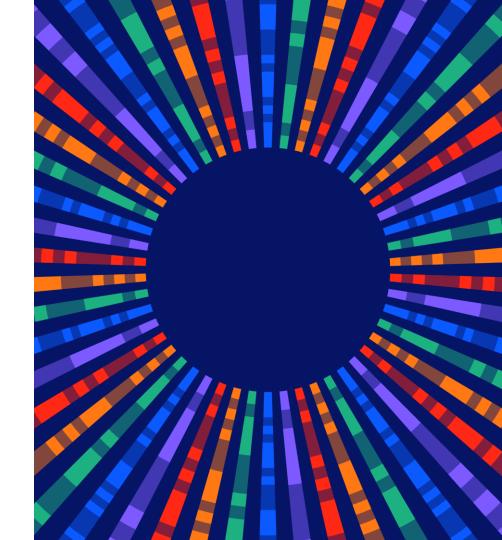
• Two: 30.0%

• Three: 6.7%



Reason #2

Comprehensive and Flexible Curriculum





Cover over 90% of the ASA exam requirement of the SOA 覆蓋北美精算學會 (SOA) 準精算師考試課程 90% 以上

FOUNDATIONS	ACTUARIAL I	ACTUARIAL II	ADVANCED	PROFESSIONALISM
FINANCIAL MATHEMATICS SDST2902, SDST3905	FXAM FUNDAMENTALS OF ACTUARIAL MATHEMATICS SDST3901, SDST3906 SDST3908, SDST4903	ADVANCED LONG-TERM ACTUARIAL MATHEMATICS OR	e-LEARNING FUNDAMENTALS OF ACTUARIAL PRACTICE SDST3953	SEMINAR ASSOCIATESHIP PROFESSIONALISM COURSE
PROBABILITY SDST2901, SDST3902	VEE MATHEMATICAL STATISTICS SDST3902	ADVANCED SHORT-TERM ACTUARIAL MATHEMATICS SDST3901, 3909, 3956 OR SDST3906, 3908, 4903		
VEE ECONOMICS ECON1210, ECON1220		PREDICTIVE ANALYTICS SDST4904	e-LEARNING ADVANCED TOPICS IN PREDICTIVE ANALYTICS (SDST4904)	
VEE ACCOUNTING AND FINANCE ACCT1101, SDST3904	EXAM STATISTICS FOR RISK MODELING SDST3907, SDST4904			
e-LEARNING PRE-ACTUARIAL FOUNDATIONS	e-LEARNING ACTUARIAL SCIENCE FOUNDATIONS (SDST3953)			



Students can freely choose to take any major or minor study 學生可自由選擇主副修課程

Possible combinations

- ✓ 1^{st} Major (AS) + 2^{nd} Major
- ✓ 1st Major (AS) + Minor
- ✓ 1^{st} Major (AS) + 1^{st} Minor + 2^{nd} Minor

Popular choices of 2nd Major Computer Science; Economics; Finance; Sociology



Popular choices of Minor

Accounting; Computer Science; Economics; Finance; Hong Kong Studies; Mathematics; Physics; Spanish; Sustaining Cities, Cultures, and the Earth (SCCE)



Industry Collaboration

• Collaborate with **AIA Group** (largest publicly traded life insurance group in the Asia-Pacific region) and **FIS** (one of the largest financial technology companies in the world) to offer a new course, SDST3957 *Essential Principles in Actuarial Modelling*.

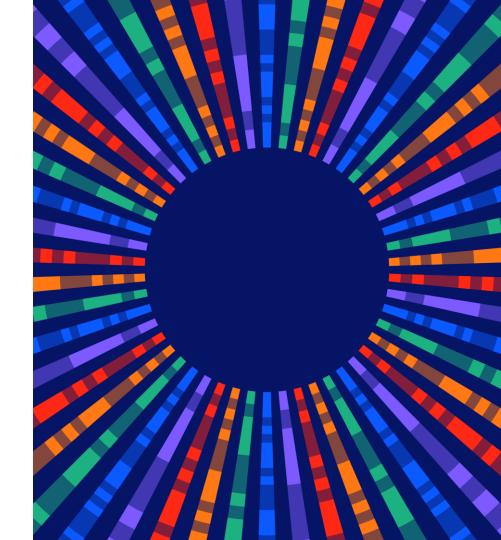
• Features of the course:

- Taught by a team of **experienced actuaries** from AIA
- Students will learn how to perform **actuarial modelling** through practical business case studies
- Students will gain hands-on experience of using Insurance Risk Suite (formerly Prophet), a state-of-the-art professional actuarial modelling solution, developed and sponsored by FIS.



Reason #3

Recognition by Professional Bodies

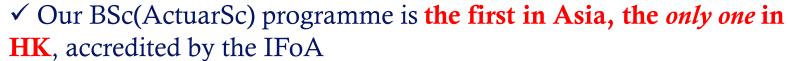




Institute and Faculty of Actuaries (UK)

✓ Accreditation for SIX Core Principles subjects

CS1, CS2, CM1, CM2, CB1, CB2



Society of Actuaries (US)

- ✓ A11 3 VEEs
- ✓ Center of Actuarial Excellence
- ✓ **Exemption** of professional exams: FM, SRM, ALTAM, ASTAM



Institute

and Faculty

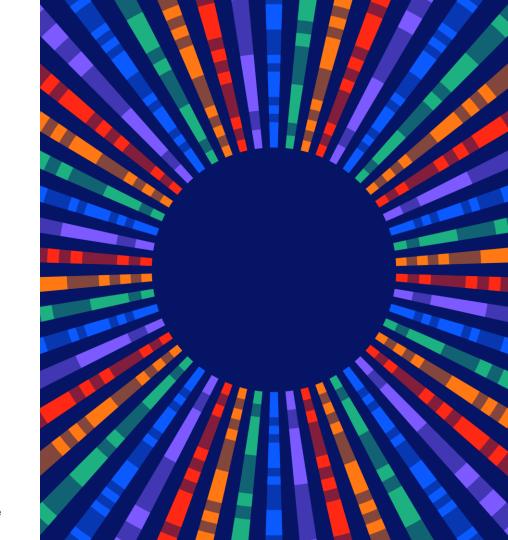
of Actuaries





Reason #4

Comprehensive Career Support





Professional Development – Career Advising Programme

- Professional Preparation Programme (PPP)
- Individual consultation on cover letter, CV and interview skills
- Corporate Mentorship Programme (CMP) AIA Group, AIA International, AXA, Bloomberg, China Life, Chubb, Cigna, Deloitte, Ernst & Young, HSBC, KPMG, SCOR Re, Swiss Re, etc
- Market information workshops
- Firm visits and alumni sharing
- Career Fair











Reason #5

Internship Opportunities































94% of our students have participated in the internship programme!

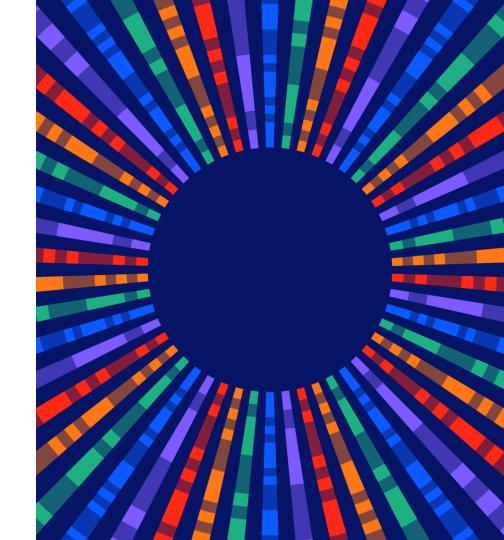
- ABN AMRO Asset Management
- ACE Life
- American International Assurance (AIA)
- Aon Hewitt
- AXA
- BOC Group Life Assurance
- Citibank
- Dah Sing Life
- Deloitte
- Deutsche Bank
- Ernst & Young
- FTSE Group
- FWD Life Insurance Company (Bermuda) Ltd.
- Goldman Sachs
- Hang Seng Bank
- Hewitt Associates

- HSBC Investment (HK) Ltd.
- ING Life
- JP Morgan
- KPMG
- Manulife (International) Ltd.
- Morgan Stanley
- Munich Reinsurance Co.
- New York Life
- Prudential Assurance Co. Ltd.
- Rabobank
- RGA Reinsurance
- Standard Chartered Bank (Hong Kong) Ltd.
- Swiss Re
- Towers Watson



Reason #6

Scholarships





Dr Patrick S C Poon Scholarship in Actuarial Science

- ★ 5 scholarships
- * Awarded to first year students admitted through JUPAS with most outstanding entrance record
- ★ Each at HK\$50,000 or HK\$60,000 per year, all renewable based on satisfactory performance in each year's study in the programme





School of Computing and Data Science Entrance Scholarship

- Up to 10 scholarships for new undergraduate students of the School of CDS
- ❖ Award of HK\$50,000, tenable for four years

Statistics and Actuarial Science (SAAS) Scholarships

- 21 scholarships for actuarial science students
- Award of HK\$10,000 to HK\$20,000

Hong Kong Federation of Insurers Scholarship

- Up to 6 scholarships
- Award of HK\$20,000





YF Life Scholarship in Actuarial Science and Risk Management

- YFLife 萬通保險
- Shared between actuarial science and risk management students
- **Award of HK\$15,000**

The Life Underwriters Association of Hong Kong Scholarship

- Shared between actuarial science and risk management students
- **Award of HK\$10,000**



China Life Insurance (Overseas) Scholarship in Actuarial Science

5 scholarships





Sir Edward Johnston Prize (by Institute and Faculty of Actuaries (IFoA))

- Only for actuarial students at specific universities
- An annual award of £250



QRT-HKU Scholarship

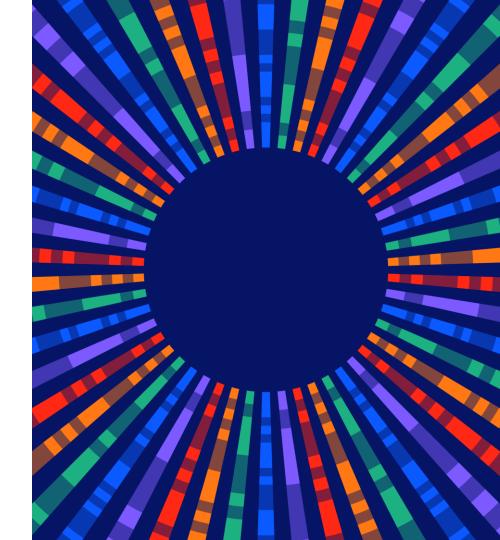
- Covers students' composition fee (and subsistence allowance for non-local students)
- Up to 5 scholarships





BSc(ActuarSc) Admission Requirement

精算課程入學要求





Admission Requirements 入學要求

JUPAS (HKDSE)

© English Language Level 3

© Chinese Language Level 3

© Mathematics (Compulsory Part) Level 4

© Mathematics (Extended Part – Module 1 or 2) Level 4

© Citizenship & Social Development/Liberal Studies Attained/Level 2

© 1 Elective Level 3

Admission formula = $[Eng + Math + (M1 \text{ or } M2)] \times 1.2 + Best 2$

DSE Level	3	4	5	5*	5**
Score	3	4	5.5	7	8.5



Admission Requirements 入學要求



Non-JUPAS

- Applicants with other local/international/national qualifications (e.g., IB, GCE-AL, SAT/AP, NJCEE) will be considered on an individual merit basis.
- Please visit the **HKU Undergraduate Admissions** webpage for more information on the criteria for specific qualifications:

 https://admissions.hku.hk/apply/international-qualifications



Enquiries

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Facebook: https://www.facebook.com/hkustatisticsactuarialscience

Website



Facebook Page



