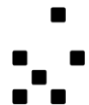




SCHOOL OF
**COMPUTING &
DATA SCIENCE**
The University of Hong Kong

 **SAAS**
DEPARTMENT OF STATISTICS & ACTUARIAL SCIENCE
The University of Hong Kong

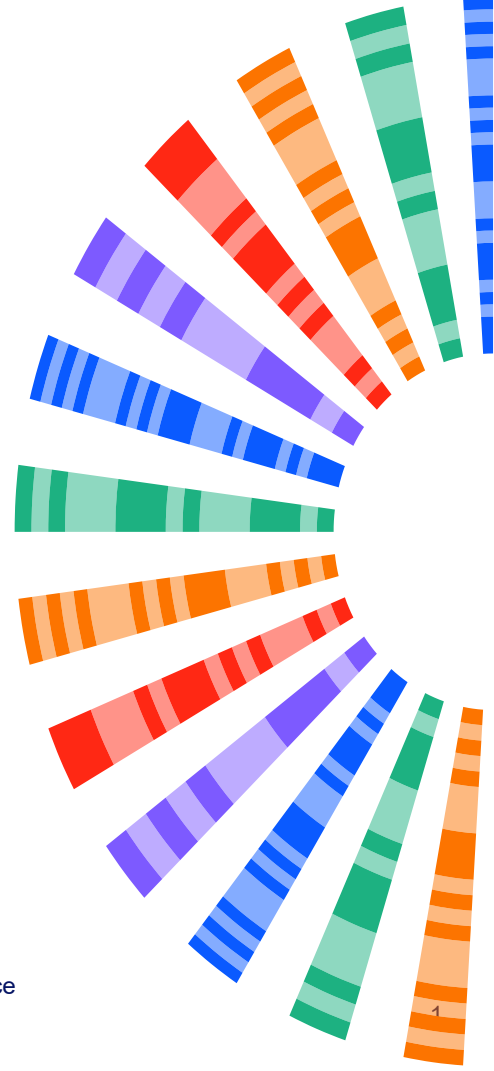
Admission Talk for HKU Actuarial Science - BSc(ActuarSc)

JUPAS Programme Code: 6729

24 October, 2026

The University of Hong Kong
School of Computing & Data Science

Department of Statistics & Actuarial Science
BSc(ActuarSc) Admission Talk

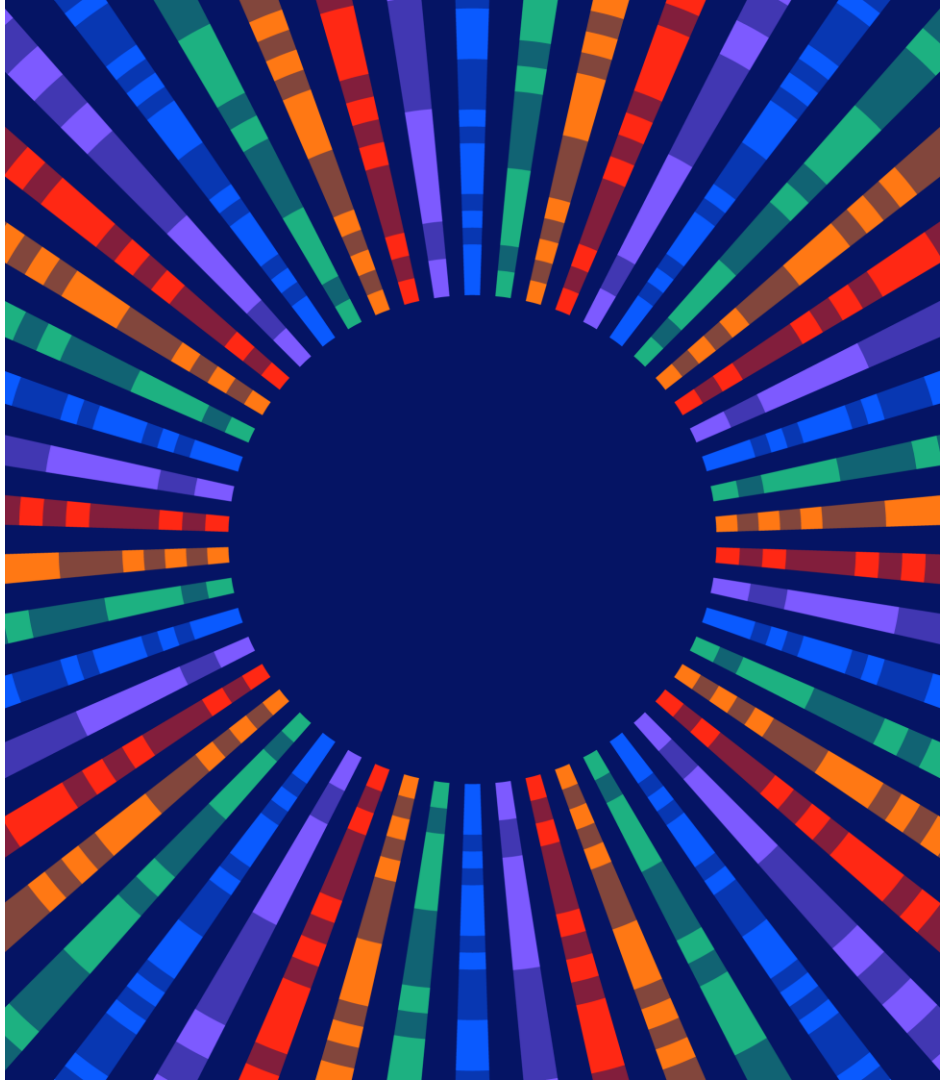


About School of Computing & Data Science (CDS)

Empowering Changemakers of the Future

- Established in 2024 at The University of Hong Kong
- Encompasses three departments: AI & 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

The University of Hong Kong
School of Computing & Data Science



International rankings of HKU



#1
in Asia

#11
in the world

#18

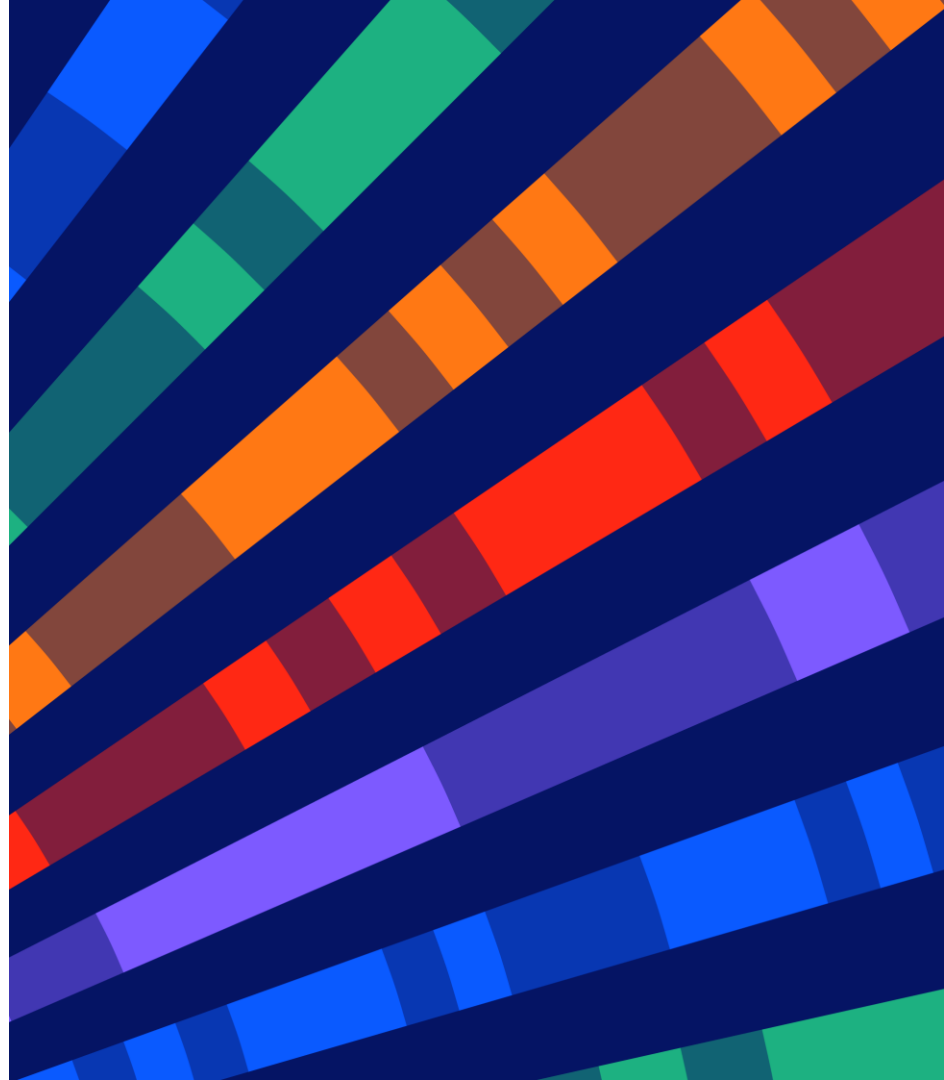
Data Science and Artificial Intelligence



#6
in Asia

#33
in the world

The University of Hong Kong
School of Computing & Data Science



What is Actuarial Science? 什麼是精算?

- 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

- 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。

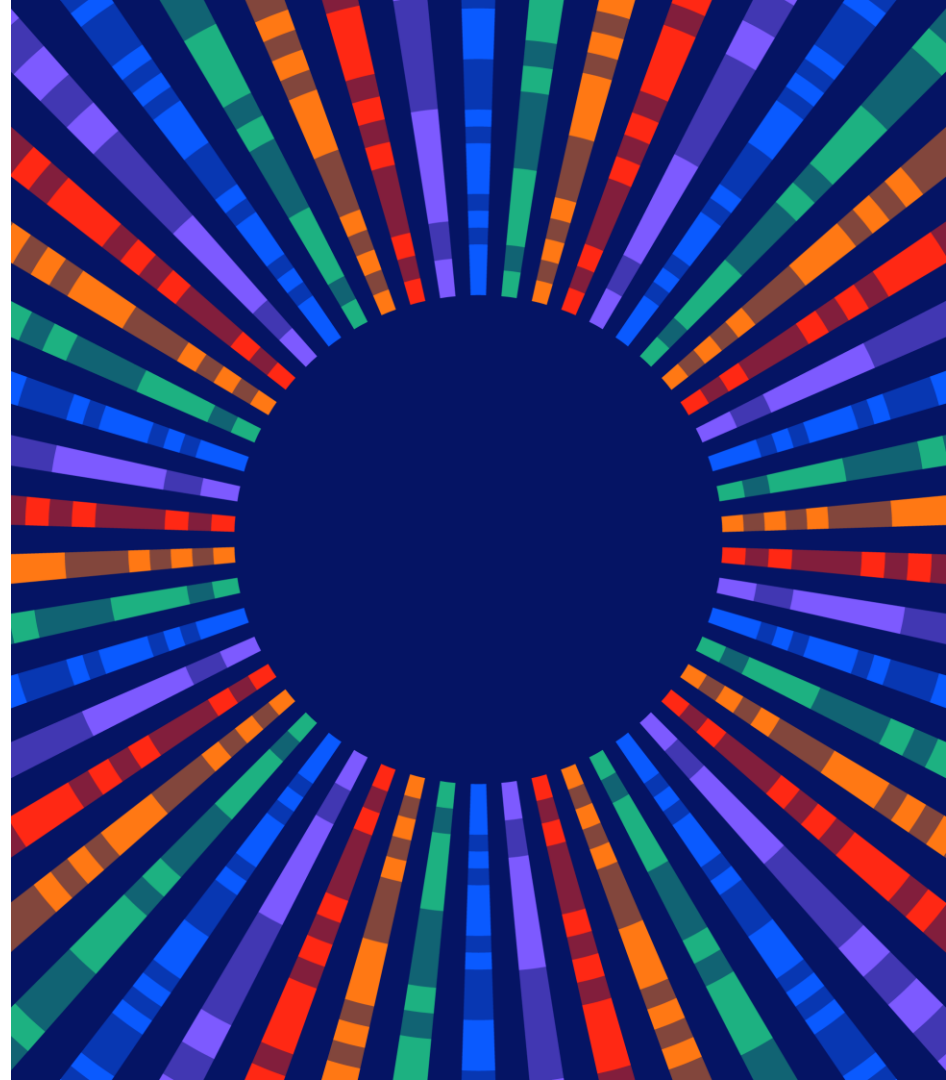
Source: <https://www.stheadline.com/columnists/lifestyle/3179047/%E5%AF%8C%E9%80%9A%E4%BF%9D%E9%9A%AA-%E7%B2%BE%E7%AE%97%E5%B8%AB%E6%96%BC%E4%BF%9D%E9%9A%AA%E5%85%AC%E5%8F%B8%E8%88%89%E8%B6%B3%E8%BC%95%E9%87%8D%E7%9A%84%E8%A7%92%E8%89%B2%E5%9F%8E%E4%B8%AD%E7%86%B1%E4%BA%8B>

How to Become an Actuary?

怎樣成為一個精算師？

Actuaries
Risk is Opportunity.®

The University of Hong Kong
School of Computing & Data Science

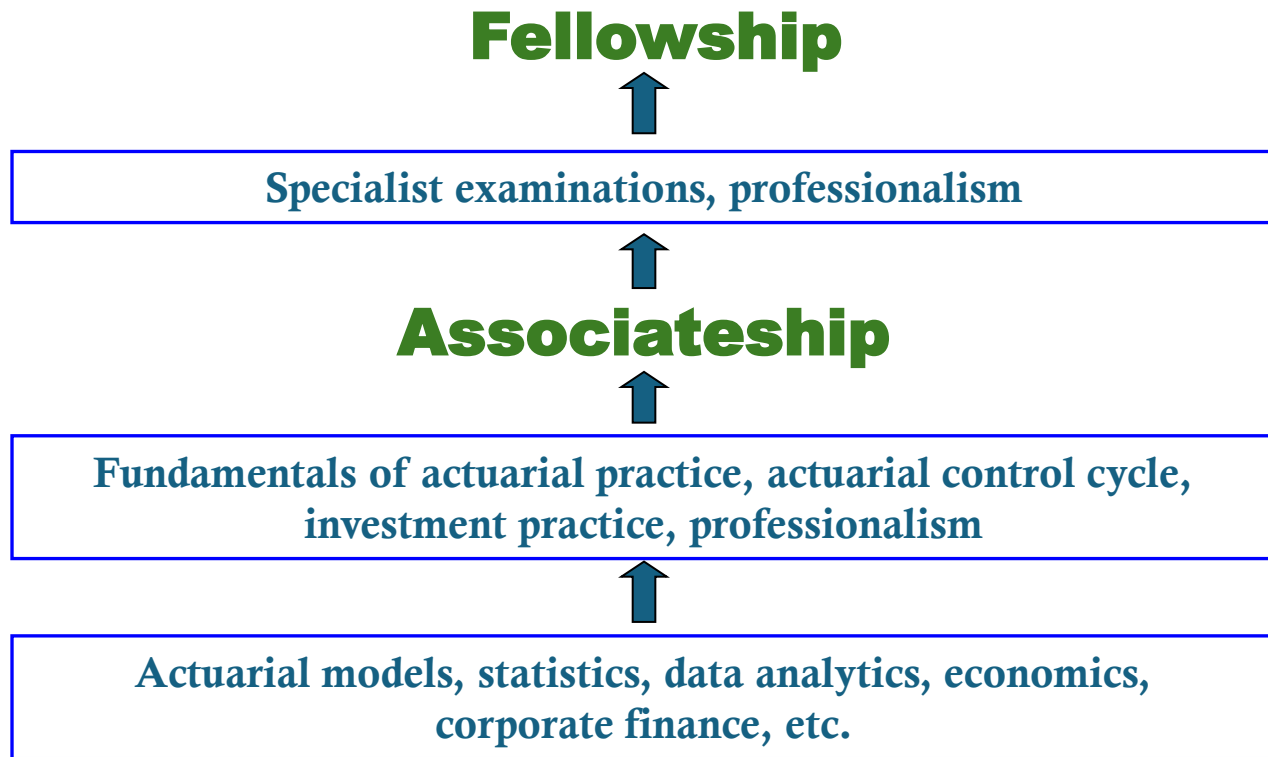


Becoming an Actuary 成為一個精算師

- 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

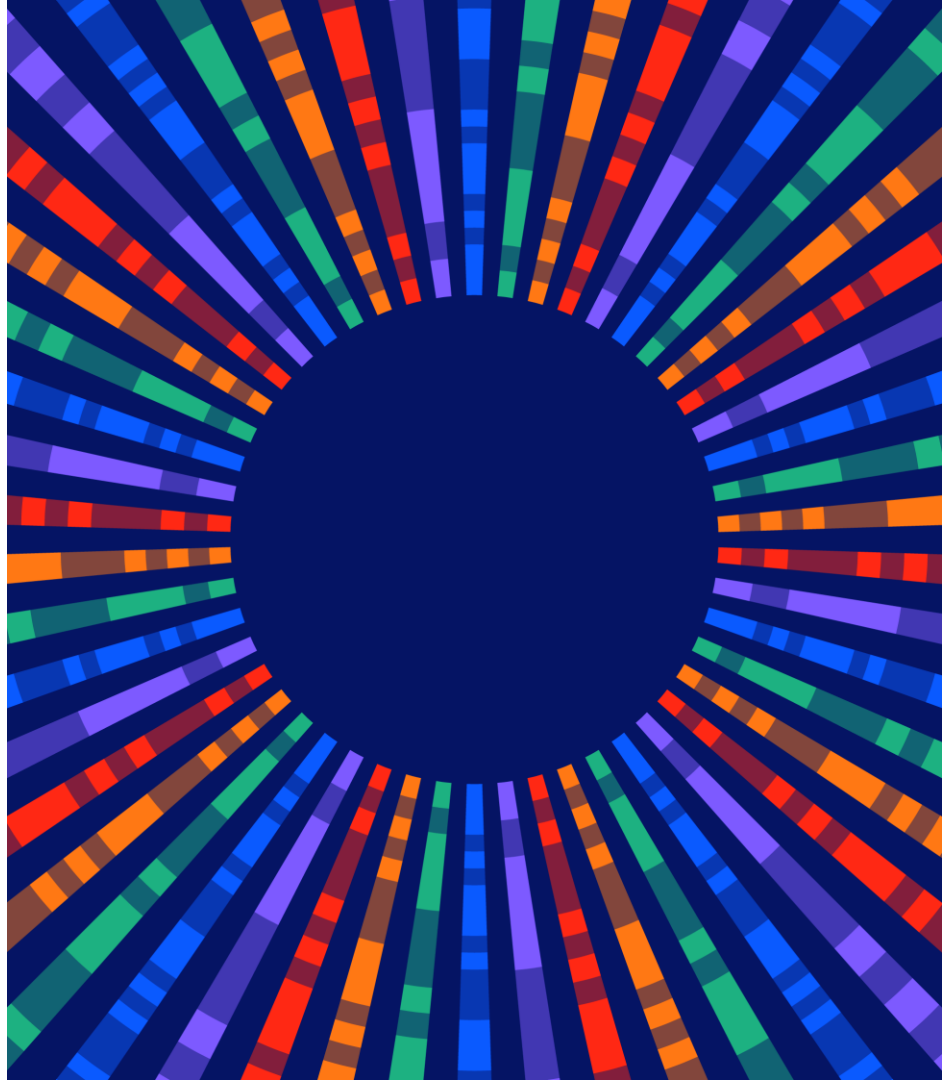


Typical Exam Systems 典型考試制度



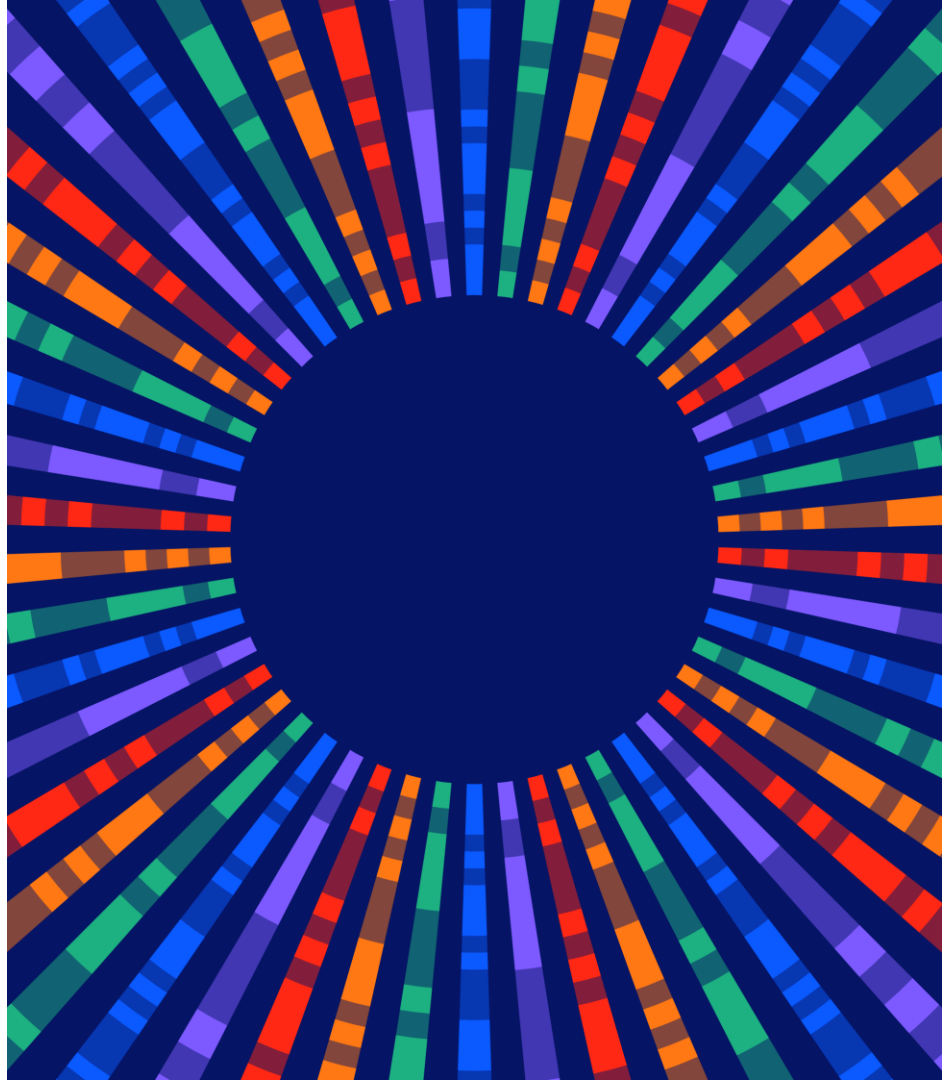
Top 6 Reasons

you should choose
HKU Actuarial Science



Reason #1

Excellent Employment Prospect



Prospect of Actuaries 精算師出路多！

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



Best Universities for Actuarial Science in Asia

Updated: March 15, 2026 EduRank

Below is a list of best universities in Asia ranked based on their research performance in Actuarial Science. A graph of 804K citations received by 80.5K academic papers made by 366 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/>

Society of Actuaries: Actuary Recognized as a Best Job in U.S. News & World Report Rankings

Chicago, IL, February 4, 2026 — *U.S. News & World Report* has recognized the [actuarial profession](#) as one of the 100 Best Jobs, in addition to ranking as a top technology and STEM job. Actuaries use advanced math, analytics and business insight to help people and organizations understand the risks ahead and plan for the future. Career opportunities span a variety of fields, including insurance, health care, consulting, financial services, government and education.

In 2026, *U.S. News & World Report* ranked the actuarial career as follows:

- **#5** in Best Technology Jobs
- **#7** in Best Science, Technology, Engineering and Mathematics (STEM) Jobs
- **#11** in 100 Best Jobs

"This recognition in the 100 Best Jobs highlights the actuarial profession's strong career outlook and the value actuaries bring across industries," said Greg Heidrich, Society of Actuaries (SOA) CEO. "An actuarial career remains a compelling path for students who want to leverage their math skills for high-impact work, supported by competitive compensation and skills that remain in high demand."

Median Salary

\$125,770

Unemployment Rate

N/A

Number Of Jobs

7,300

Source: U.S. News & World Report
<https://careers.usnews.com/best-jobs/actuary>

Source:
<https://www.soa.org/resources/announcements/press-releases/2026/2026-us-jobs-report/>

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>

< Back

Financial Services

Actuary

Description of Tasks

- Actuaries with expertise in insurance operation, including areas such as product development and pricing, asset / liability management, data and predictive analytics, enterprise risk management and carrying out financial reporting, capital and actuarial valuation in a risk-based solvency regime environment.

Minimum Requirements

- First degree in actuarial science, mathematics, statistics, economics, commerce or business administration; and at least 3 years of post-qualification experience in actuarial-related field.

Associate

MONTHLY SALARY
\$30,000 - \$40,000



Senior Associate

MONTHLY SALARY
\$40,000 - \$50,000



Assistant Manager

MONTHLY SALARY
\$50,000 - \$70,000



Manager

MONTHLY SALARY
\$58,000 - \$75,000

HK Salary Survey 2026

insurance.

roles	low	middle	high
actuarial			
chief actuary	180,000	240,000	300,000
director	120,000	140,000	180,000
associate director	80,000	100,000	120,000
senior manager	68,000	78,000	85,000
manager	58,000	66,000	75,000
assistant manager	48,000	60,000	70,000
senior associate	40,000	45,000	50,000
associate	30,000	35,000	40,000

Source: Randstad Hong Kong Salary Guide 2026

<https://www.randstad.com.hk/s3fs-media/hk/public/2025-12/2026-Randstad-Hong-Kong-Market-Outlook-Salary-Guide.pdf#page=25>

UK Salaries

Earning Potential in Insurance			
Business Function	Entry Level*	Senior roles*	Partner/Head*
Underwriting	£28,840	£128,750	£257,500
Claims	£28,840	£103,000	£154,500
Broking	£28,840	£128,750	£257,500
Risk and Compliance	£30,900	£92,700	£154,500
Projects, Change and Operations	£30,900	£113,300	£180,250
Actuarial	£41,200	£154,500	£216,300

*Salaries based on jobs across the UK. Source: **Salary & Recruiting Trends 2026 | Digital Guide | Hays**

Source: <https://www.insurancecareers.co.uk/profession-overview/insurance-salary-survey-2026-hays/>

2025 Actuarial Science Graduates

- Employed 76.8%
- Further Studies 19.6%
- Salary
 - Average: \$26,121
 - Maximum: \$35,080
- Number of Full-time Job Offers
 - One: 56.5%
 - Two: 39.1%
 - Three: 4.3%

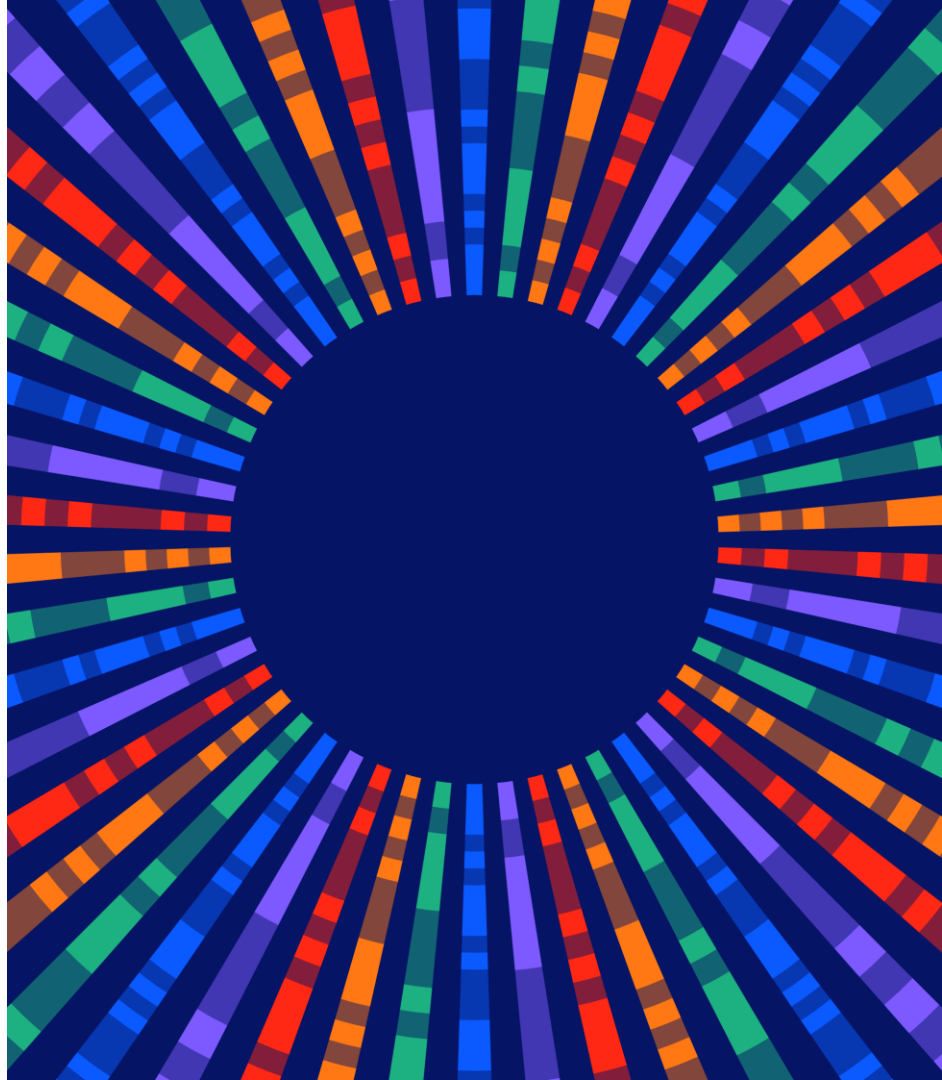
Will actuaries be replaced by AI?

- AI will not replace actuaries, but it will **fundamentally transform their roles**.
- While automation handles routine modeling and data processing, human judgment remains essential for **strategic decision-making, regulatory navigation, and complex risk interpretation**.
- Technology shifts the profession from **manual calculations** to **high-level advisory and risk leadership**.



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
EXAM FINANCIAL MATHEMATICS SDST2902, SDST3905	EXAM FUNDAMENTALS OF ACTUARIAL MATHEMATICS SDST3901, SDST3906 SDST3908, SDST4903	EXAM ADVANCED LONG-TERM ACTUARIAL MATHEMATICS OR ADVANCED SHORT-TERM ACTUARIAL MATHEMATICS SDST3901, 3909, 3956 OR SDST3906, 3908, 4903	e-LEARNING FUNDAMENTALS OF ACTUARIAL PRACTICE SDST3953	SEMINAR ASSOCIATESHIP PROFESSIONALISM COURSE
EXAM PROBABILITY SDST2901, SDST3902	VEE MATHEMATICAL STATISTICS SDST3902	EXAM PREDICTIVE ANALYTICS SDST4904	e-LEARNING ADVANCED TOPICS IN PREDICTIVE ANALYTICS (SDST4904)	
VEE ECONOMICS ECON1210, ECON1220				
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

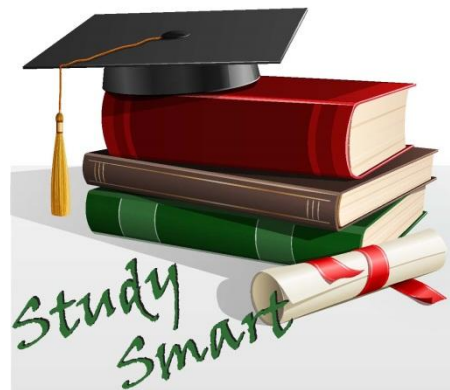
- ✓ 1st Major (AS) + 2nd Major
- ✓ 1st Major (AS) + Minor
- ✓ 1st Major (AS) + 1st Minor + 2nd Minor

Some popular choices of 2nd Major (第二主修)

Computer Science; Economics; Finance; Psychology

Some popular choices of Minor (副修)

Accounting; Computer Science; Economics; Finance; Mathematics; Philosophy;
Physics; Psychology; Language minors such as French, Japanese, Korean and Spanish



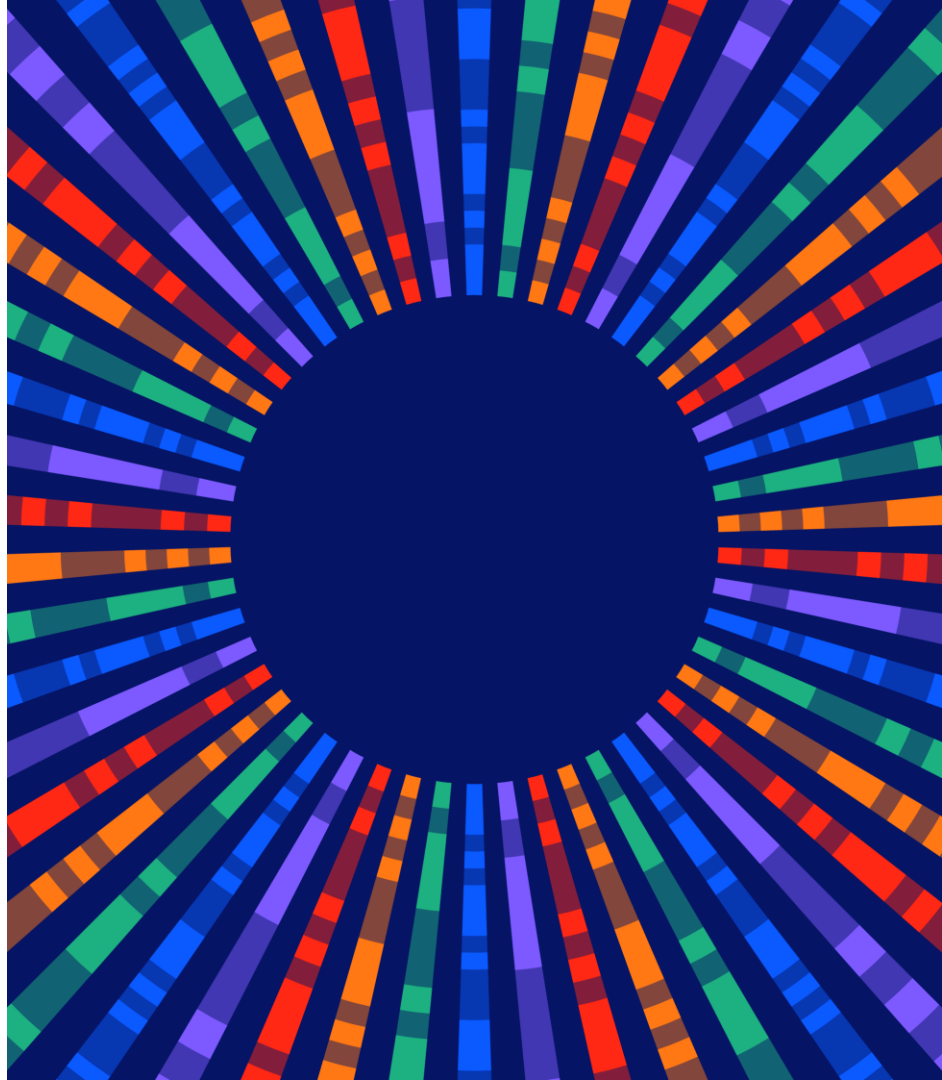
Industry Collaboration

- Collaboration 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 the 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)



Institute
and Faculty
of Actuaries

- ✓ **Accreditation** for **SIX** Core Principles subjects
CS1, CS2, CM1, CM2, CB1, CB2
- ✓ Our BSc(ActuarSc) programme is **the first in Asia, the only one in HK**, accredited by the IFoA

Society of Actuaries (US)

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



CENTER OF ACTUARIAL
EXCELLENCE



UNIVERSITY-EARNED
CREDIT



SOCIETY OF ACTUARIES®

Actuarial Society of Hong Kong (香港精算學會)



ACTUARIAL SOCIETY
of
H O N G K O N G
香 港 精 算 學 會

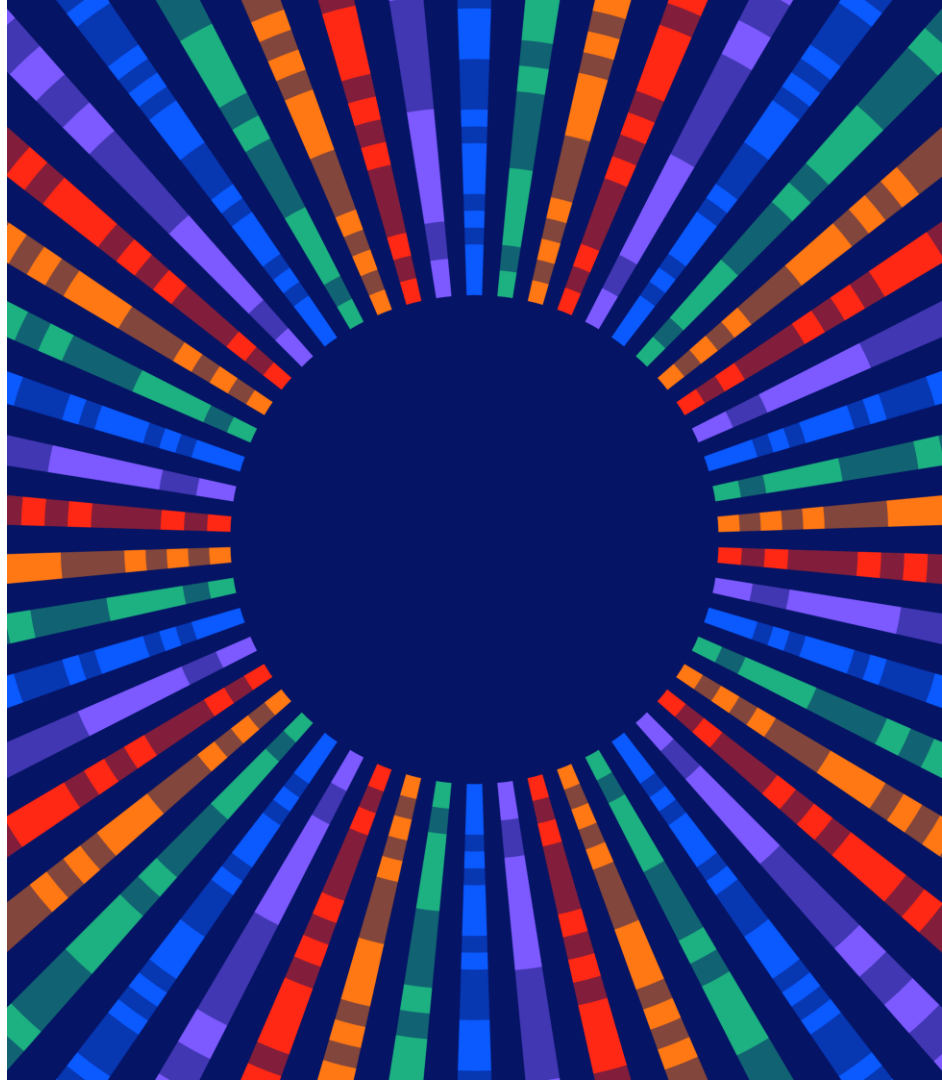
✓ **Exemption** from the **Core Paper** of the ASHK Certificate Examination upon successful completion of the course SDST3954 *Current Topics in Actuarial Science* with specified marks **[New in 2026!]**

✓ A Fellow membership of ASHK is a requirement [Insurance (Actuaries' Qualifications) Regulations Cap. 41A] to be an **Appointed Actuary / Certifying Actuary** in Hong Kong

More information: https://saasweb.hku.hk/news-and-events/news/HKU_ASHK_signed_accreditation_agreement

Reason #4

Comprehensive Career Support



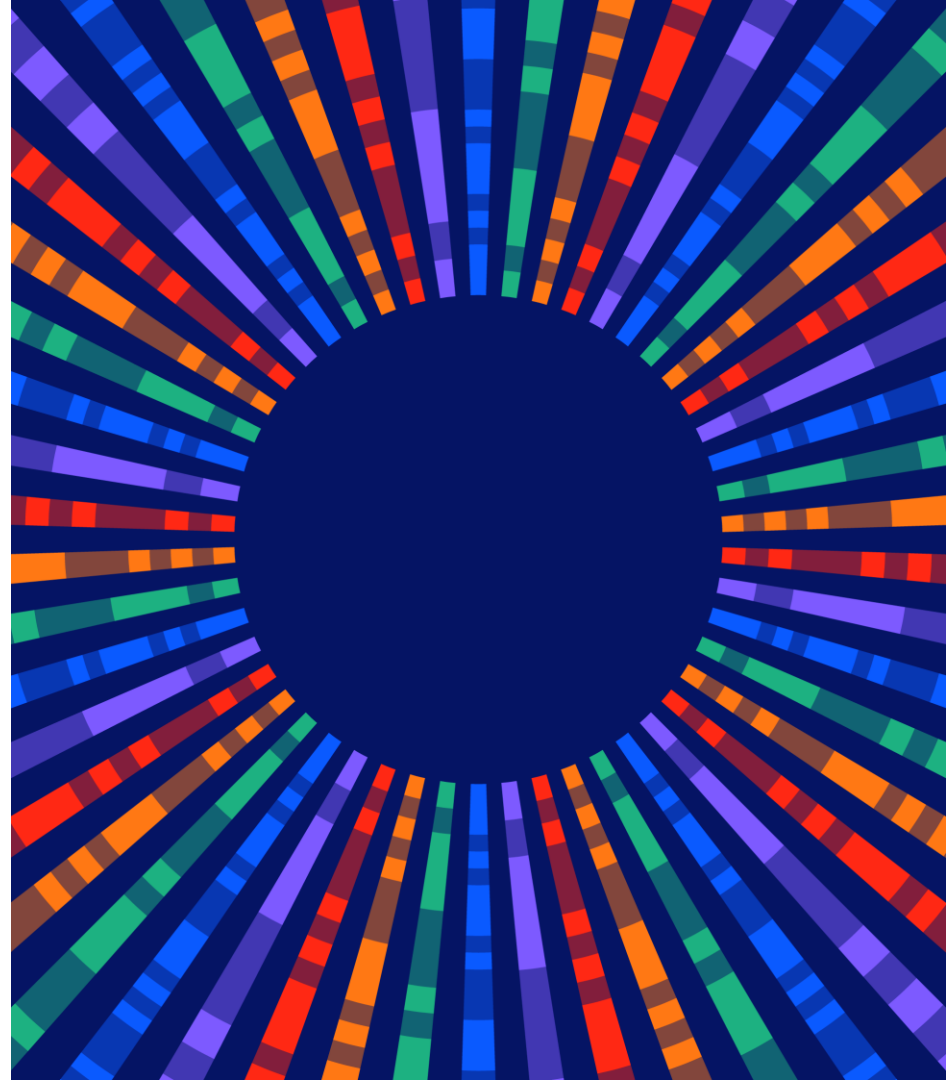
Professional Development – Career Advising Programme

- 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





Blue Cross 藍十字
Member of BSA Group



PRUDENTIAL
英國保誠保險

Sun Life Financial
永明金融

ERNST & YOUNG
Quality In Everything We Do

宏利
Manulife

Gen Re | LifeHealth

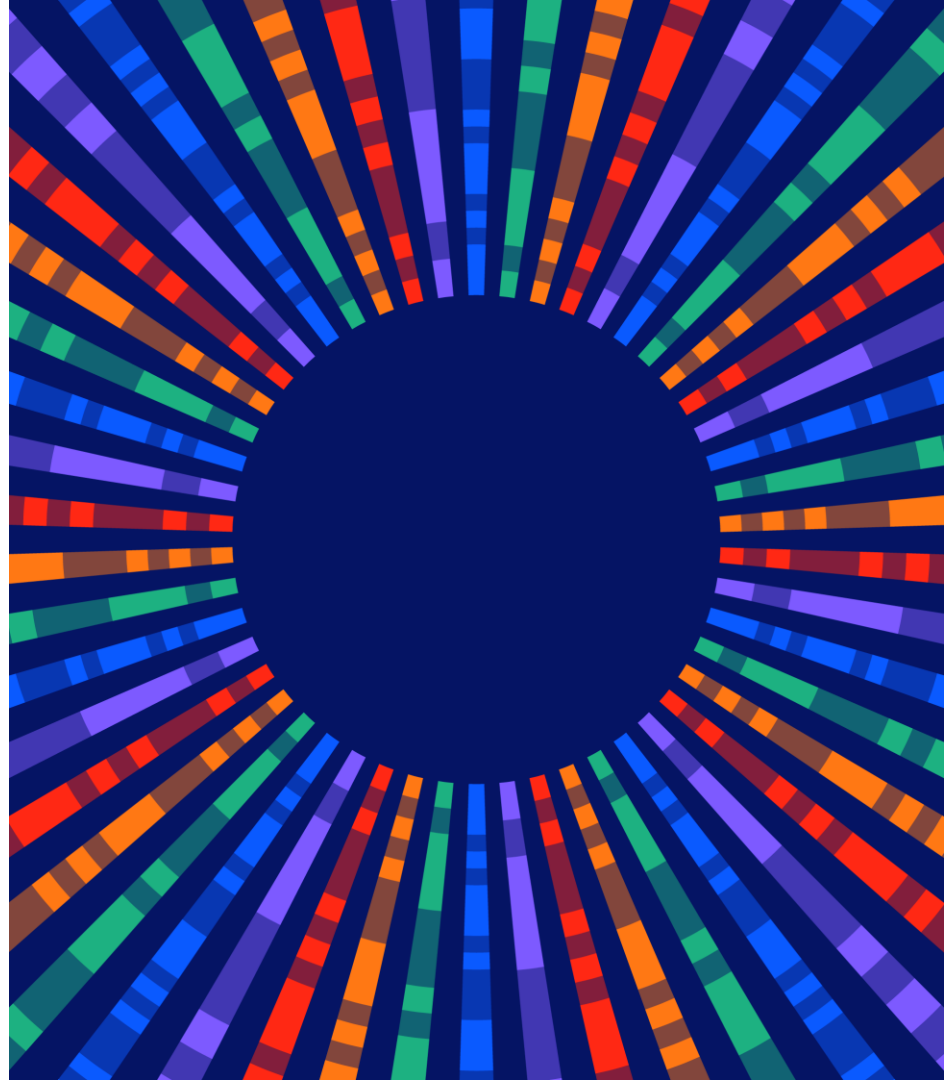


94% of our students have participated in the internship programme!

- ABN AMRO Asset Management
- American International Assurance (AIA)
- Aon Hewitt
- AXA
- BOC Group Life Assurance
- Chubb Life
- Cigna
- Citibank
- Dah Sing Life
- Deloitte
- Deutsche Bank
- Ernst & Young
- FTSE Group
- FWD Life
- General Reinsurance AG
- Goldman Sachs
- Hang Seng Bank
- Hewitt Associates
- HSBC Investment (HK) Ltd.
- JP Morgan
- KPMG
- Manulife (International) Ltd.
- Morgan Stanley
- Munich Reinsurance Co.
- Prudential Assurance Co. Ltd.
- Rabobank
- RGA Reinsurance
- Standard Chartered Bank (Hong Kong) Ltd.
- Sun Life
- Swiss Re
- WTW (Willis Towers Watson)

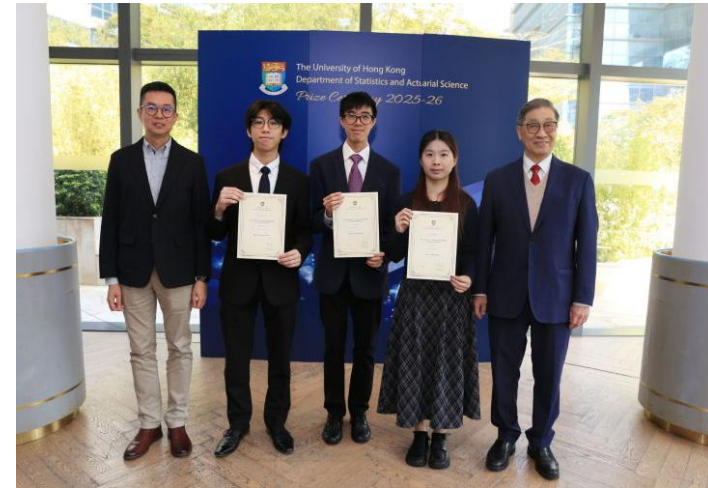
Reason #6

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 ([Link](#))

- ❖ For top-performing students admitted to the School of CDS
- ❖ CDS's flagship scholarship valued at **HK\$200,000** per recipient

Statistics and Actuarial Science (SAAS) Scholarships ([Link](#))

- ❖ For exceptional students admitted to the BSc(ActuarSc) programme
- ❖ Award of up to **HK\$100,000**
- ❖ Some SAAS scholarships are also available to current students: [Link](#)

Hong Kong Federation of Insurers Scholarship

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



YF Life Scholarship in Actuarial Science and Risk Management

- ❖ Award of **HK\$15,000**; shared between actuarial science and risk management students



The Life Underwriters Association of Hong Kong Scholarship

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



Sir Edward Johnston Prize (Awarded by the IFoA)

- ❖ Annual award of **£250** for actuarial students at **specific universities**



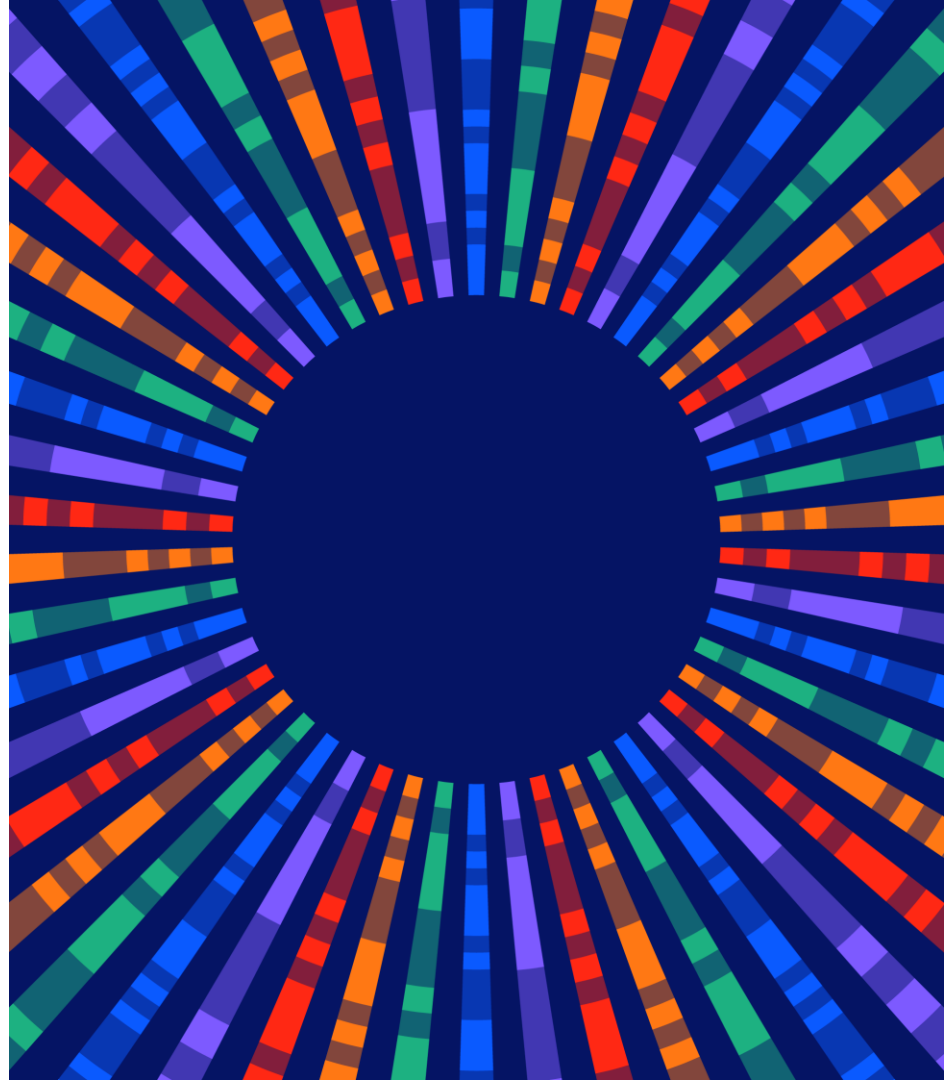
QRT-HKU Scholarship

- ❖ Scholarships for first-year students that cover the annual **composition fee** (and subsistence allowance for non-local students)



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 or M2)] × 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

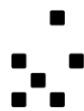
Non-JUPAS

- 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>



SCHOOL OF
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 **SAAS**

DEPARTMENT OF STATISTICS & ACTUARIAL SCIENCE
The University of Hong Kong

Department of Statistics and Actuarial Science

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Email: saasadm@hku.hk

Website: <https://saasweb.hku.hk>

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

Instagram: [@hkusaas](https://www.instagram.com/hkusaas)

Website



Facebook



Instagram

