

### UCAP program

Effective from August 2020, our minor program has been included in UCAP (Universities and Colleges with Actuarial Programs) list by Society of Actuaries (SOA). Our minor program has currently achieved the tier *UCAP-Advanced Curriculum*. More details can be found in the following website: <https://www.soa.org/institutions/>

Our courses in minor programs currently cover syllabus of exam P (Probability), FM (Financial Mathematics), STAM (Short-term Actuarial Mathematics), LTAM (Long-term Actuarial Mathematics) and IFM (Investment and financial market). The details can be found in the following table:

Exams	Relevant courses (offered in HKUST)
P	MATH2411 -- Applied Statistics MATH2421 -- Probability
FM	MATH2511 – Fundamentals of Actuarial Mathematics MATH4512 -- Fundamental of Mathematical Finance*
STAM	MATH4427 – Loss models and their applications MATH4428 – Bayesian Analysis and Credibility Theory
LTAM	MATH4513 -- Life Contingencies Models and Insurance Risks
IFM	MATH4512 -- Fundamental of Mathematical Finance MATH4514 -- Financial Economics in Actuarial Science

(\*Note: The topic 1 of MATH4512 (bond immunization) is relevant to Exam FM)

In addition, we offer courses that can cover all Validation by Educational Experience (VEE) topic areas. The details can be found in the following table:

### **Courses for fulfilling Validation by Educational Experience (VEE) requirement (as of 1<sup>st</sup> Aug, 2021)**

Topic Area	Approved HKUST courses	Expiry date	Remark
VEE in Mathematical Statistics	MATH3423 (B- or above)	31 <sup>st</sup> Dec, 2023	Nil
VEE in Economics*	ECON2103 (B- or above)	31 <sup>st</sup> Dec, 2025	For microeconomics component only
	ECON2123 (B- or above)	31 <sup>st</sup> Dec, 2025	For marcoeconomics component only
	ECON2113 (B- or above)	31 <sup>st</sup> Dec, 2025	For microeconomics component only
	ECON3123 (B- or above)	31 <sup>st</sup> Dec, 2025	For marcoeconomics component only
	ECON3133 (B- or above)	31 <sup>st</sup> Dec, 2025	For microeconomics component only

VEE in Accounting and Finance**	FINA2203 (B- or above)	31 <sup>st</sup> Dec, 2023	For finance component only
	FINA2303 (B- or above)	31 <sup>st</sup> Dec, 2023	For finance component only
	ACCT1010 (B- or above)	31 <sup>st</sup> Dec, 2023	For accounting component only
	ACCT2010 (B- or above)	31 <sup>st</sup> Dec, 2023	For accounting component only
	ACCT3030 (B- or above)	31 <sup>st</sup> Dec, 2023	For accounting component only

**\*Note: To fulfil VEE requirement in economics, student must take one course in microeconomics AND one course in macroeconomics.**

**\*\*Note: To fulfil VEE requirement in accounting and finance, student must take one course in finance AND one course in accounting**

**\*\*\*Note: The student can grant the VEE credits if he/she has taken those courses before the expiry date.**

### **Reimbursement scheme of SOA preliminary examination (For academic year 2022-2023)**

Being part of UCAP-AC list, up to **3** students can apply for reimbursements of examination fees of preliminary exam (for exams IFM, LTAM, STAM and SRM only) in each academic year.

### **Eligibility**

In order to be eligible for our reimbursement scheme, the student must fulfil the following criterions:

- He/she must be the on-going student in minor program of actuarial mathematics (ACTM);
- He/she must have completed MATH2511 (required course of ACTM) and have achieved a grade **B or above** in at least one of the advanced elective courses chosen from the following list:
  - **MATH4427** - Loss models and their application
  - **MATH4512** - Fundamental of Mathematical Finance
  - **MATH4513** - Life Contingencies Models and Insurance Risks
  - **MATH4514** - Financial Economics in Actuarial Science
- He/she must have completed one of the above four preliminary exams and has achieved a passing score during the academic year (1<sup>st</sup> Sept 2022 – 30<sup>th</sup> May, 2023). The **grade release date** will serve as the eligibility date for the exam.
- He/she have not received any reimbursement from this reimbursement scheme.



### Application procedure

Eligible students should send the request to the MATH UG team ([mathug@ust.hk](mailto:mathug@ust.hk)) with the following documents:

- Most updated unofficial transcript,
- Official grade result of relevant SOA exam(s)

### Selection criterion

At most 3 awards will be given in each academic year based on the students' performance in the advanced elective courses in actuarial mathematics listed as follows:

- **MATH4427** - Loss models and their application
- **MATH4512** - Fundamental of Mathematical Finance
- **MATH4513** - Life Contingencies Models and Insurance Risks
- **MATH4514** - Financial Economics in Actuarial Science

The final awardee will be selected based on (1) the number of advanced elective courses above taken by the students and (2) the grades achieved in these courses.