

[Updated on 6 Mar 2026]

Gifted Education Fund: Off-School Advanced Learning Programmes (2025/26)

Nurturing Future Risk Managers and Actuaries: An AI-powered Journey for Gifted Secondary Students

Programme no: 2025-04 (A4STM001C – A4STM005C)

[*** The schedule is for reference only and are subject to the programme provider's version.]

◆ Notice

- Please bring your own laptop to each lesson and note that there are no electrical sockets in the classroom, so ensure your laptop is fully charged beforehand.
- A map of the venue is attached to the last page of this schedule for your reference.
- If you want to excuse yourself from any sessions for special reasons, you should notify us by submitting the [Leave Notification Form](#) and provide relevant documents.

◆ Phase 1 (A4STM001C)

Foundational Knowledge in Mathematics, Statistics, and Finance

| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------|--|--|---|
| 1 | 16 May 2026 (Sat) | 10:30–12:30 Lecture / 12:30–14:00 Lunch / 14:00–15:30 Tutorial | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 1: Arithmetic & algebra; money/saving/interest. Quizzes, real-life cases, Copilot for examples/simulations. Differentiated instruction. |
| 2 | 30 May 2026 (Sat) | 10:30–12:30 Lecture / 12:30–14:00 Lunch / 14:00–15:30 Tutorial | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 2: Statistics foundations (data types, collection, mean/median/mode, variability). Group surveys, graphs with Copilot code/visualization. |
| 3 | 20 Jun 2026 (Sat) | 10:30–12:30 Lecture / 12:30–14:00 Lunch / 14:00–15:30 Tutorial | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 3: Probability basics (rules, random variables). Games, Copilot calculations/scenarios. |
| 4 | 4 Jul 2026 (Sat) | 10:30–12:30 Lecture / 12:30–14:00 Lunch / 14:00–15:30 Tutorial | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 4: Discrete distributions (permutations/combinations, Bernoulli/Binomial). Copilot explanations/computations. |

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| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------|--|--------------------------|---|
| 5 | 11 Jul 2026 (Sat) | 10:30–12:30 Lecture / 12:30–14:00 Lunch / 14:00–15:30 Tutorial | CUHK Shatin Campus (TBC) | Day 5: Finance intro (markets, stocks/bonds, risk-return). Portfolio simulations, Copilot insights. Mentor tutorials; formative feedback. |

Alternative/Fallback Date in the event of Typhoon Signal No. 8 or above, Black Rainstorm Warning Signal, or Extreme Conditions: 10 Jul 2026 (Fri)

◆ Phase 2 (A4STM002C)

Introduction to Risk Management Science

| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------|--|--|---|
| 1 | 15 Jul 2026 (Wed) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 1: Risk intro & stats review. R data input/visualization (bar/histograms), Copilot code generation. |
| 2 | 17 Jul 2026 (Fri) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 2: Probability distributions (normal/binomial/Poisson). R simulations/histograms, Copilot optimization. |
| 3 | 22 Jul 2026 (Wed) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 3: Law of Large Numbers. R simulations, Copilot result interpretation. |

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| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------|--|---|--|
| 4 | 24 Jul 2026 (Fri) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 4: Risk ID/assessment (VaR intro). R VaR calculation, Copilot scripting, group discussions. |
| 5 | 25 Jul 2026 (Sat) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 5: Summative MCQ (1h, FRM-style) + Guest lecture on industry trends. |

Alternative/Fallback Date in the event of Typhoon Signal No. 8 or above, Black Rainstorm Warning Signal, or Extreme Conditions: 15 Aug 2026 (Sat)

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◆ Phase 3 (A4STM003C)

Actuarial Science and Insurance Principles

| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------|--|---|---|
| 1 | 29 Jul 2026 (Wed) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 1: Actuarial overview, insurance basics. Excel risk/probability calcs, Copilot premium calculator. |
| 2 | 31 Jul 2026 (Fri) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 2: Annuities/PV, life contingencies, mortality tables. Excel PV calcs, Copilot formulas. |
| 3 | 5 Aug 2026 (Wed) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 3: Survival models, claims frequency/severity, pricing. Excel curves/premium sims, Copilot models. |
| 4 | 8 Aug 2026 (Sat) | 10:30–12:30 (Lecture) / 12:30–14:00 (Lunch) / 14:00–16:00 (Tutorial) | Lecture: Room 103, Y C Liang Hall, CUHK (TBC) Tutorial: G25, Lady Shaw Building, CUHK | Day 4: Summative MCQ (SOA- style) + Guest lecture. |

Alternative/Fallback Date in the event of Typhoon Signal No. 8 or above, Black Rainstorm Warning Signal, or Extreme Conditions: 22 Aug 2026 (Sat)

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◆ Phase 4 (A4STM004C)

Capstone Project Development

| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------------|-------------|--|--|
| 1 | 12 Aug 2026 (Wed) | 13:30-16:00 | L1, Institute of Chinese Studies, CUHK (TBC) | Kick-off: Conclude Phases 1–3, announce capstone, group formation (5 per group), topic selection (fund risk analysis or insurance/annuity design). |
| 2 | 26 Aug 2026 (Wed) | 13:30-14:45 | Zoom | Weekly progress check & learning support specialist feedback. |
| 3 | 9 Sep 2026 (Wed) | 16:30-17:45 | Zoom | Weekly progress check & learning support specialist feedback. |
| 4 | 23 Sep 2026 (Wed) | 16:30-17:45 | Zoom | Weekly progress check & learning support specialist feedback. |
| 5 | 7 Oct 2026 (Wed) | 16:30-17:45 | Zoom | Dry-run presentations & final adjustments. |

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◆ Phase 5 (A4STM005C)

Showcase Event

| Session | Date | Time | Venue | Contents / Remarks |
|---------|-------------------------|-------------|-----------------------------|--|
| 1 | 17 Oct 2026 (Sat) | 13:00–17:00 | CUHK Shatin Campus (TBC) | Group project presentations, peer & mentor feedback, award ceremony (top 3 teams), parent/guest invitation. |

Alternative/Fallback Date in the event of Typhoon Signal No. 8 or above, Black Rainstorm Warning Signal, or Extreme Conditions: 24 Oct 2026 (Sat)

◆ Map

Please take a paid shuttle bus from the University Station stop to the Sir Run Run Shaw Hall stop. (Details: <https://transport.cuhk.edu.hk/route/up/>)



The following map shows the location of classroom:

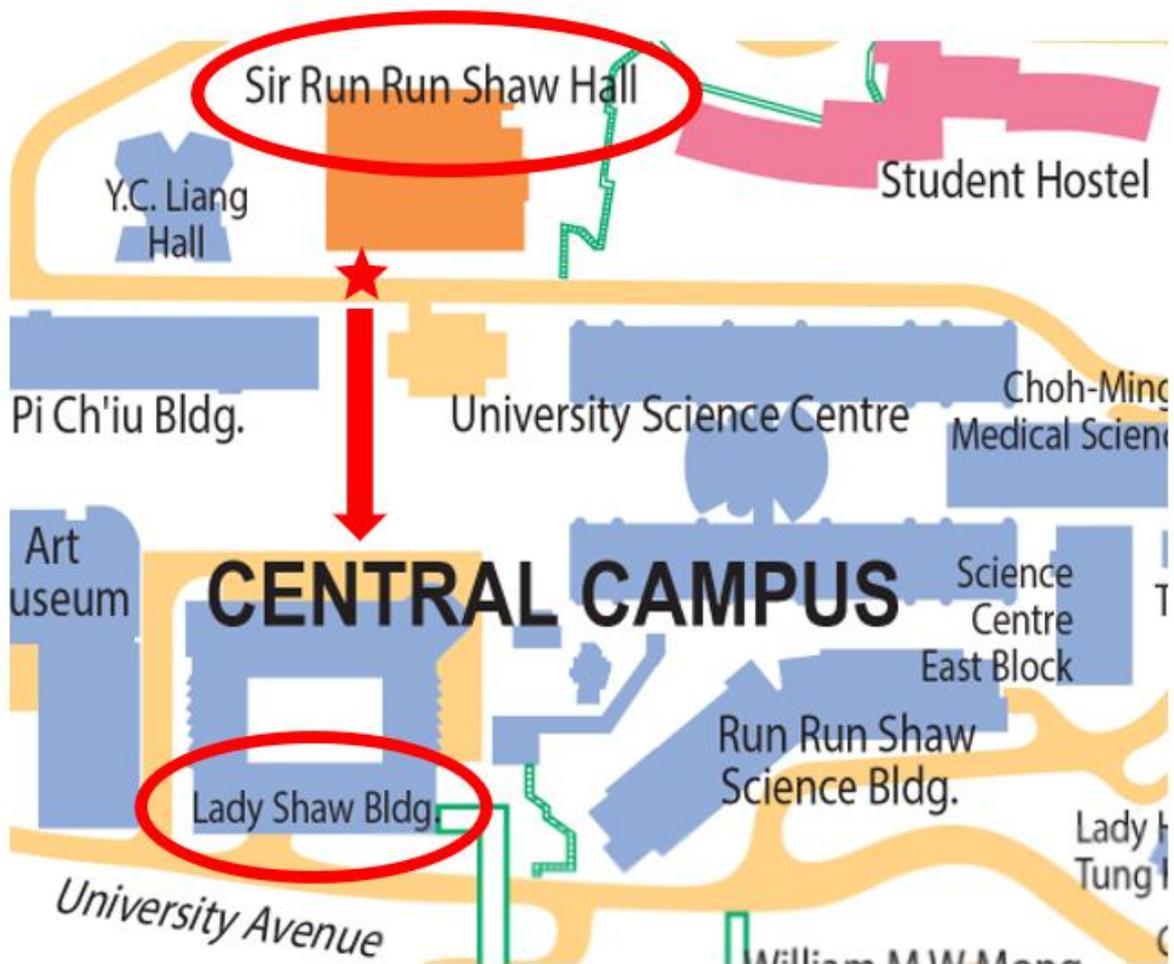
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CUHK Campus Map: <https://www.cuhk.edu.hk/english/campus/cuhk-campus-map.html>