

Graduate sharing

Mr Yeung Chung Yiu, Richard (2022/23 Dean's Honour List)

As an experienced secondary school science teacher, I recognize the importance of STEM education in shaping Hong Kong's future. The MA(STEM Ed) program at EdUHK provided a structured curriculum that prepared me to be an innovative educator capable of nurturing future STEM professionals.



Through my studies, I gained a comprehensive understanding of fundamental STEM concepts, curricular models, and assessment strategies.

Courses like "STEM Education: Theoretical & Curricular Perspectives" and "Curriculum, Teaching & Assessment in STEM" enhanced my knowledge and provided frameworks for engaging hands-on pedagogies. Guest lectures from frontline teachers and industry experts offered valuable insights into local STEM implementation opportunities.

Collaboration was key in my learning experience. In the "Scientific Inquiry & Engineering Design" course, my group designed a smartphone-assisted pinhole camera to measure the sun's diameter. The "Developing Creativity & Innovation in STEM" course inspired us to create a mechanical toothpaste pencil concept through design thinking.

In the "Technology in STEM Education" course, I developed an autonomous drone route design module aligned with key learning objectives. My elective "Research Project" involved an empirical study that demonstrated significant improvements in students' critical thinking and creativity, utilizing statistical techniques learned in the "Principles & Methods in STEM Education Research" course.

Overall, my experience at EdUHK deepened my knowledge and fostered a supportive network of educators that will be invaluable for my continuous professional growth.

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The University is committed to uphold the educational quality and standard of the programmes it offers. The University, being funded by the University Grants Committee (UGC), is one of the nine self-accrediting institutions in Hong Kong. In addition, the quality of the educational experience in all programmes offered by the UGC-funded universities is subject to the quality assurance process administered by the Quality Assurance Council of the UGC.

Individuals who wish to apply for qualification certification in Chinese Mainland after graduation should contact the CSCSE (website: <https://www.cscse.edu.cn/cscse/info2020wdfw20204k-wr232/index.html>) directly for updated details and confirmation. The certification in Chinese Mainland is an independent process from the conferral of academic qualification in Hong Kong by the University. For the avoidance of doubt, no warranties are given in respect of individual graduate's qualification certification or recognition in Chinese Mainland or any other professional qualification or license outside Hong Kong.



香港教育大學

The Education University
of Hong Kong



Master of Arts in STEM Education

(1-Year Full-time (A1M095) / 2-Year Part-time (C2M028))

STEM教育文學碩士

(一年全日制 (A1M095) / 兩年兼讀制 (C2M028))



科學與環境學系
Department of Science
and Environmental Studies

The Master of Arts in STEM Education Programme

will lead you to an exciting and rewarding experience of professional development in STEM education

The programme has.....

distinctive aims to

- promote a holistic and comprehensive understanding of STEM education;
- develop competence in promoting STEM education through curriculum integration and integrated learning;
- equip participants with the knowledge and skills for applying technology and engineering design in solving problems;
- develop participants' pedagogical content knowledge for designing instructions and assessment for integrated STEM education;
- develop leadership and cultivate a spirit of innovation in promoting school-based STEM education.

sharp focus on what STEM education professionals and leaders need to know about



The programme will benefit

- School STEM coordinators and STEM teachers
- STEM graduates
- STEM education practitioners from different sectors
- Other STEM professionals



.....with the full support of a strong teaching and technical team, specializing in

- STEM Education
- Sciences
- Information and Communication Technology
- Mathematics
- Engineering
- Environmental Studies
- Creativity Education

The programme offers 6+2 courses, covering major STEM education themes.

6 core courses:

- STEM education: theoretical and curricular perspectives (3 cps)
- Scientific inquiry and engineering design (3 cps)
- Technology in STEM education (3 cps)
- Developing creativity and innovation in STEM (3 cps)
- Coding and computational thinking (3 cps)
- Principles and methods in STEM education research (3 cps)

2 elective courses:

- Participants could choose ONE out of the TWO courses in each Elective Group:
- Elective Group I (3 cps):**
- Curriculum, teaching and assessment in STEM for primary schools
- OR
- Curriculum, teaching and assessment in STEM for secondary schools
- Elective Group II (3 cps):**
- Research project
- OR
- Internship

.....delivered through creative and diverse learning modes:



Medium of Instructions

The medium of instruction is English.

Tuition Fee

Tuition fee for the whole programme is \$160,800 (\$6,700 per cp)*

*Tuition fee is subject to adjustment

Scholarship

The University Grants Committee (UGC) launched a "Hong Kong Future Talents Scholarship Scheme for Advanced Studies" from 2025/26 to subsidize local students to study taught postgraduate programmes. Please refer to the UGC's website for details.

Besides, successful applicants may be granted a scholarship of HK\$10,000 by The Education University of Hong Kong. The Education Bureau (EDB) also offers a scholarship of HK80,000 to local school teachers on a competitive basis. Please refer to the EDB's website for the Scholarship for Teachers (Pursuit of Master's Degree Programmes)#. #Subject to approval

Entrance Requirements

- (a) Applicants should normally hold a recognized Bachelor's degree or equivalent.
- (b) Applicants whose entrance qualification is obtained from an institution in a non-English speaking system should normally fulfil one of the following minimum English proficiency requirements:
- Overall score of IELTS 6.0 (academic version)#; or
 - TOEFL score of 80 (internet-based test)#; or
 - Band 6 in the College English Test (CET)# with a total score of 430; or
 - Grade C or above in GCSE / GCE OL English; or
 - Other equivalent qualifications.
- #The test should be taken in test centres and the result should be valid within two years. TOEFL Home Editions, TOEFL MyBest Score, IELTS Indicator, IELTS Online, IELTS One Skill Retake, Duolingo and National Postgraduate Entrance Examination (全國碩士研究生招生考試) are NOT acceptable.
- (c) Shortlisted applicants may be required to attend an interview.

Application

For programme information and application, please visit:

mastem.eduhk.hk/



.....Join the programme by applying now.