

## THE UNIVERSITY OF HONG KONG

**Template for Mapping of Programme Learning Outcomes to University Educational Aims – Taught Postgraduate Programmes**

Faculty of \_\_\_\_\_Science\_(Department of Chemistry) \_\_\_\_\_

Programme title: \_\_\_\_\_Master of Science in the field of Chemical Technologies for Health and Materials\_\_\_\_

Applicable student cohort(s): \_\_\_\_\_2024-2025 and thereafter\_\_\_\_\_

The purpose of mapping is to illustrate the coherence of the programme in achieving the University Educational Aims (UEAs). The mapping should be an evaluative and reflective process, and the Faculty must ensure that the programme as a whole offers students sufficient opportunities to develop the attributes articulated in each of the UEAs and the corresponding Institutional Learning Outcomes. *Please put a tick (✓) in the boxes under the UEA columns below to indicate the alignment, as applicable.*

Programme Learning Outcomes (PLOs)	Alignment with University Educational Aims (UEAs)*					
	Benchmarked against the highest international standards, the taught postgraduate programmes at HKU are designed to enable students to develop capabilities in:					
	UEA1 Critical intellectual enquiry and acquiring up-to-date knowledge and research skills in a discipline/ profession	UEA2 Application of knowledge and research skills to practice or theoretical exploration, demonstrating originality and creativity	UEA3 Tackling novel situations and ill-defined problems	UEA4 Collaboration and communication of disciplinary knowledge to specialists and the general public	UEA5 Awareness of and adherence to personal and professional ethics	UEA6 Enhancement of leadership and advocacy skills in a profession (for professional programmes only)
PLO1: Students will demonstrate a comprehensive understanding of advanced chemical knowledge applied to health and material aspects, including the design, development and application of chemical analysis, synthesis and modeling techniques.	X	X	X	X		
PLO2: Students will be able to think creatively and innovate novel ideas for providing forward-thinking solutions in		X	X	X		

chemistry-related industries, health & well-being, energy & advanced materials through chemical synthesis and analysis						
PLO3: Students will acquire chemistry knowledge, experimental skills, critical thinking, and logical reasoning skills for project design, management, and start-up businesses.	X	X		X		
PLO4: Students will apply scientific thinking and innovative ideas to conduct scientific research and investigations according to proper scientific ethics, integrity, and professional practices.			X		X	
PLO5: Students will develop a systematic approach to devising Chemistry research and development projects for real-life scenarios in health and materials; and communicate their findings to academia, industrial partners, potential investors and general public.	X		X	X		

\*The Institutional Learning Outcomes for each UEA can be found at [tl.hku.hk/tl/](http://tl.hku.hk/tl/).

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