



Master of Applied Science in Medical Laboratory Science

醫務化驗科學 應用理學碩士

2026-2027

Programme Introduction

This Master of Applied Science in Medical Laboratory Science (MASCMLSF) programme focuses on the practical application of knowledge and skills in the real-world clinical diagnostic laboratory. It is designed to equip students with the advanced technical and analytical skills necessary for performing complex laboratory tests and working in clinical diagnostic laboratory settings. It involves hands-on training in various areas of laboratory science, such as clinical chemistry and immunology, haematology and transfusion science, histopathology and cytology, medical microbiology, and molecular diagnostics.

The curriculum is specifically integrated with clinical placement in hospitals and diagnostic laboratories, extending beyond the local vicinity to the Great Bay Area, which is essential for those pursuing their careers in medical laboratory science. The programme is seeking accreditation from Hong Kong Medical Laboratory Technologists (MLT) Board. The MASCMLSF programme is designed to achieve the accreditation criteria set by the Board. The accreditation process for the MASCMLSF programme by the Board is currently in progress. For registration as a Medical Laboratory Technologist with the Board, students are required to achieve a grade of C or higher in all the courses in the programme upon graduation.

Course Information

Programme Code:	MASCMLSF
Programme Mode:	Face-to-face
Duration of Study:	2 years (Full-time) / 4 years (Part-time) (Daytime course delivery)
Medium of Instruction:	English
Courses & Credit-units:	A total of 78 credit-units
Tuition fee (HK\$):	\$507,780 Subject to the latest announcement by the University

Programme Aims

Upon successfully completing the programme, students should be able to:

- Apply advanced knowledge and technology in medical laboratory sciences to various types of diagnostics in the medical laboratory,
- Design and perform test methods and research projects in the fields of medical laboratory science,
- Analyze and interpret test results using a critical thinking mindset to address the clinical presentation of the referring subjects,
- Apply medical laboratory management system and quality assurance in the medical laboratory setting,
- Present and explain diagnostic test results effectively in the peer's discussion and the interdisciplinary/multidisciplinary clinical and research teams meetings.



Programme Features

Students will learn through full-time or part-time face-to-face mode with online support. Regular lectures and tutorials are available in all prescribed courses, except the dissertation project, and the clinical placement and reflective practice courses. Hands-on workshops and laboratory sessions are available in certain courses. The face-to-face mode of teaching aims to provide opportunities for students to discuss academic issues with their lecturers and acquire practical laboratory skills.

All the prescribed courses will also be supported by the HKMU Online Learning Environment (OLE) which provides online discussion for interaction among students and between lecturers and students. This allows discussion of theories explained in the courses, their applications and evaluations. The dissertation project will be conducted under the close supervision of academic staff, allowing students to develop independent research skills and apply theoretical knowledge to real-world problems. The clinical placements provide students with essential real-life experience in professional settings, fostering the development of practical competencies and reflective practice.

Admission Requirements

To enter the programme, an applicant should:

- Possess a bachelor's degree in biological, biomedical, or biotechnological science, or relevant health or applied science disciplines (e.g. biomedical engineering, applied chemistry, or medical bioinformatics) from a recognized institution or equivalent qualification, and
- Fulfill the English language proficiency requirement set by HKMU if applicant's bachelor's degree or equivalent qualification do not adopt English as the medium of instruction.

Proficiency Test	Minimum score
English Language Subject of the Hong Kong Diploma of Secondary Education Examination (DSE)	Level 3
TOEFL – paper-based*	550
TOEFL – paper delivered*	60 (total scores for Reading, Listening and Writing sections)
TOEFL – internet based**	79
IELTS**^	6.0
CET-6*	430
or equivalent	

*Test results are accepted for 2 years from the date of the test.

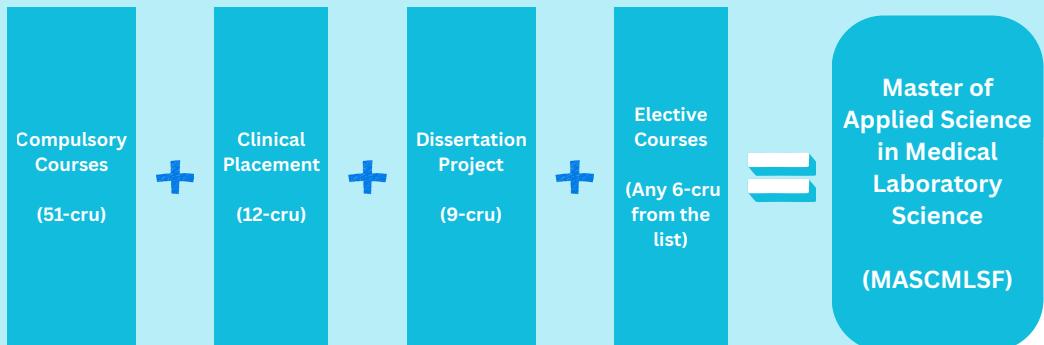
^Test result of TOEFL iBT Home edition or IELTS Online is not accepted.

Entry Requirement:



Programme Structure

A total of 78 credit-units from core, electives, clinical placement, and dissertation project



Remarks: cru refers to credit-unit(s). The programme structure is subject to timely review.

Career Prospect & Professional Recognition

Graduates from the programme will embark on career in performing medical laboratory and diagnostic tests. There will be a diverse range of career prospects in government/hospital/private medical laboratories, biotechnological and pharmaceutical industries, as well as in the roles of technical specialists and consultants. Additionally, graduates will have the option to further pursue doctoral/master studies in medical science and biotechnology related areas.

Enquiry

Registry (Admission)

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Programme Leader

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Programme
Website



Online
Application