



# Master of Medical Laboratory Science

醫療化驗科學  
碩士學位

## Credit Required for Graduation

81

## Tuition Fee

HK\$7,850 per credit (x 80 credits) for local and non-local students  
(Note: There is no tuition charge for the 1-credit AIE subject.)

## Mode of Attendance

Full-time mode

## Normal Duration

2 years

## Entrance Requirements

- A Bachelor's degree in sciences, preferably biochemistry, biological sciences, life sciences or health-related disciplines from a reputable university.
- Preference will be given to applicants who have obtained credits for each of the following prerequisite undergraduate-level courses before admission to the programme:
  - Cell Biology (3 credits or equivalent)
  - Human Anatomy (3 credits or equivalent)
  - Human Biochemistry (3 credits or equivalent)
  - Human Genetics (3 credits or equivalent)
  - Human Physiology (3 credits or equivalent)
  - Laboratory Techniques and Instrumentation (3 credits or equivalent)
  - Molecular Biology (3 credits or equivalent)
  - Statistics / Biostatistics (3 credits or equivalent)

## Scholarships

HTI Entry Scholarships for Taught Postgraduate Programmes are available.

## Contact Information

Department of Health Technology and Informatics  
The Hong Kong Polytechnic University  
Web site: [www.polyu.edu.hk/hti](http://www.polyu.edu.hk/hti)  
Tel : (852) 3400 8578  
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SEPT 2025 Entry

# Subject Offerings\*

## Master of Medical Laboratory Science

### Core Subjects

- Bioinformatics for Medical Laboratory Science
- Capstone Project
- Clinical Immunology
- Clinical Virology
- Current Topics in Medical Laboratory Science
- Human Pathophysiology
- Human Physiology
- Instrumentation in Clinical Laboratory
- Legal and Ethical Issues for Healthcare Professions
- Molecular Diagnostics in Medicine
- Molecular Technology in Clinical Laboratory
- Workshops on Advanced Molecular Diagnostic Technology

### Specialism Subjects

- Basic Cellular Pathology
- Basic Clinical Chemistry
- Basic Haematology
- Basic Medical Microbiology
- Clinical Placement
- Concepts and Theories in Clinical Chemistry
- Concepts and Theories in Haematology and Transfusion Science
- Concepts and Theories in Histopathology and Cytology
- Concepts and Theories in Medical Microbiology
- Practicum and Interpretation in Clinical Chemistry
- Practicum and Interpretation in Haematology and Transfusion Science
- Practicum and Interpretation in Histopathology and Cytology
- Practicum and Interpretation in Medical Microbiology

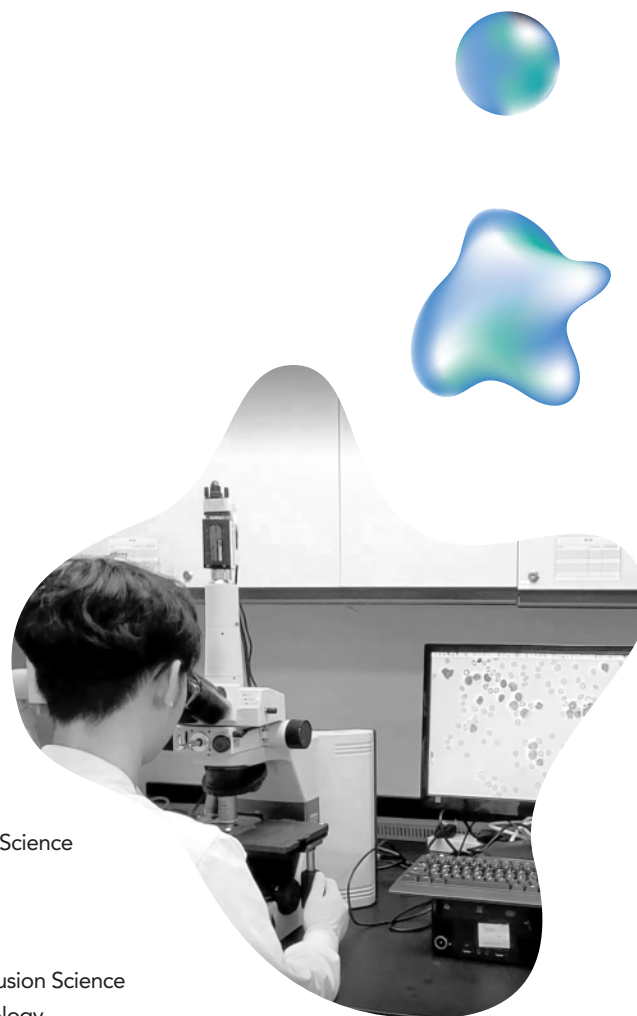
### Elective Subjects

- Epidemiology
- Professional Development in Infection Control Practice
- Clinical Applications of Molecular Diagnostics in Healthcare

### Other Requirements

- Complete the 1-credit Academic Integrity and Ethics (AIE) subject
- Complete the e-learning module on "Understanding China and the Hong Kong Special Administrative Region, P.R.C."

\*Subject to change and for reference only. For details of the curriculum, please refer to Programme Requirement Document.



## Programme Intended Learning Outcomes

Upon successful completion of the programme, students will be able to

1. exhibit an appropriate foundation of knowledge and skill sets in biological sciences that underpin Medical Laboratory Science subjects.
2. demonstrate a solid foundation in both the theoretical and practical aspects of Medical Laboratory Science, enabling graduates to enter the profession and practice with an acceptable level of professional competency.
3. acquire advanced level of knowledge and skills in the profession of Medical Laboratory Science.
4. work in accord with good laboratory practice.
5. apply knowledge and skills gained from the programme to professional practice and to address profession-specific problems in the laboratory and workplace.
6. relate, integrate and apply the practice of Medical Laboratory Science to the assessment of health and disease status within the healthcare system.
7. communicate ideas and to connect and establish positive relationships with different people across a range of professional and personal contexts.
8. plan and reflect on their own learning independently during the postgraduate study, later professional practice as well as lifelong.
9. develop attributes of inquiry, independent learning, critical analysis, problem solving, creativity and team work.
10. develop a sense of responsibility to the profession, community, nation and the world.

## Professional Recognition

Graduates are eligible to apply for registration (Part II) with the Medical Laboratory Technologists (MLT) Board of Hong Kong.<sup>^</sup> Registration is legally required for practising as medical laboratory technologist in local medical laboratories. Graduates are also eligible (i) to apply for Membership of the Institute of Biomedical Science (IBMS, UK), and (ii) to sit the Certificate Examination of the American Society for Clinical Pathology International (MT, ASCPi).

<sup>^</sup>Pending approval

## Programme Aims

The aim of the MMLS programme is to equip students to become qualified medical laboratory technologists (MLTs), responsible for conducting tests accurately, analysing results and providing essential information for patient diagnosis and treatment. They also play a role in maintaining quality control, managing laboratory equipment and data, and collaborating with healthcare professionals to ensure optimal patient care.

MMLS students are cultivated as lifelong learners and critical evaluators of professional and scientific healthcare literature, enabling them to engage in research, analyse information from various sources and apply it to clinical practice. Through a strong sense of professional commitment, our graduates deliver high-quality services and contribute to the advancement of the MLT profession.

## Characteristics

This is the only full-time postgraduate programme in Medical Laboratory Science offered by Hong Kong Government-funded universities for the entry of MLTs profession. In addition to a comprehensive theoretical foundation, the curriculum incorporates practical training and clinical attachments in Hong Kong hospitals' laboratories. Students will acquire the skills to connect theoretical knowledge with practical applications, enabling them to effectively apply their knowledge of laboratory medicine.

