



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



Department of
Health Technology
and Informatics
醫療科技及資訊學系

MSc in Medical Laboratory Science

Postgraduate Scheme in Health Technology

醫療化驗科學 理學碩士學位

Credit Required for Graduation

31

Tuition Fee

HK\$6,700 per credit (x 30 credits) for local and non-local students
(Note: There is no tuition charge for the 1-credit AIE subject.)

Mode of Attendance

Mixed Mode (full-time or part-time)

Normal Duration

1.5 years for full-time study
3 years for part-time study

Entrance Requirements

- A Bachelor's degree in Medical Laboratory Science or Biomedical Science, or a related discipline from a recognised institution.
- Other qualifications may be considered on an individual basis.

Scholarships

HTI Entry Scholarships for Taught Postgraduate Programmes are available.

Contact Information

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SEPT 2026 Entry

Programme Aims

This programme is offered within the Postgraduate Scheme in Health Technology, which aims to provide professionals in Medical Imaging, Radiotherapy, Medical Laboratory Science, Health Technology, as well as others interested in health technology, with an opportunity to develop advanced levels of knowledge and skills. The specific aims of this programme are:

- To broaden and deepen students' knowledge and expertise in Medical Laboratory Science;
- To introduce students to advances in selected areas of diagnostic laboratory techniques;
- To develop in students an integrative and collaborative team approach to the investigation of common diseases;
- To foster an understanding of the management concepts that are relevant to clinical laboratories; and
- To develop students' skills in communication, critical analysis and problem solving.

Characteristics

Apart from the award of MSc in Medical Laboratory Science (MScMLS), students can choose to graduate with the specialism of Molecular Diagnostics, i.e., MSc in Medical Laboratory Science (Molecular Diagnostics), upon completion of the specified requirements.

Programme Intended Learning Outcomes

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

1. acquire and critically apply advanced discipline knowledge and scholastic skills in a broad range of their respective profession of MLS.
2. apply critical analysis and problem-solving skills and formulate creative strategic solutions for complex situations relating to their professional practice.
3. demonstrate a higher level of professional competence to cope with the rapid changes in practice, make critical use of changing and emerging technologies for work, and deal with complex interdisciplinary issues.
4. develop skills that will help them become socially responsible leaders in their professional area, demonstrating a critical awareness of current issues in local, national and global contexts, capable of dealing with complex issues and making responsible decisions, leading with integrity and pride for the benefit of society and a sustainable future, communicating effectively with diverse audiences and fostering effective and harmonious collaboration in an intercultural and/or interdisciplinary team.
5. develop analytical and research skills that will help them critically evaluate complex information and arguments, make sound judgement and incorporate evidence-based practice in the delivery of healthcare services and industry.
6. demonstrate their abilities to engage in continual professional development, reflect on their goals and purposes, refine their learning approaches, adapt to unfamiliar learning situations, and persevere through setbacks.

Professional Recognition

HTI is an accredited Continuing Professional Development (CPD) provider, recognised by the Medical Laboratory Technologists Board of Hong Kong. Students will be awarded CPD points for all MLS-related subjects offered within this MSc programme.

This programme is accredited by the Institute of Biomedical Science (UK), subject to final confirmation.

Subject Offerings*

MSc in Medical Laboratory Science

Compulsory Subjects

- Dissertation
- Integrated Medical Laboratory Science
- Research Methods & Biostatistics

Core Subjects (at least 3 subjects)

- Advanced Topics in Health Technology (guided study)
- Cell and Gene Therapy in Healthcare
- Clinical Applications of Molecular Diagnostics in Healthcare
- Clinical Chemistry
- Epidemiology
- Haematology and Transfusion Science
- Histopathology and Cytology
- Immunology
- Medical Microbiology
- Molecular Technology in Clinical Laboratory
- Workshops on Advanced Molecular Diagnostic Technology

Elective Subjects (maximum ONE from non-HTI subjects#)

Any subjects from the Core Subjects list; and

- Bioinformatics in Health Sciences
- Clinical Laboratory Management
- Evidence-based Traditional Chinese Medicine
- Professional Development in Infection Control Practice
- #Knowledge Management for Clinical Applications
- #Molecular and Functional Imaging: From Body System to Molecules
- #Radiation Protection and Radiation Safety
- #Virtual Reality in Healthcare

MSc in Medical Laboratory Science (Molecular Diagnostics)

Compulsory Subjects

- Dissertation
- Integrated Medical Laboratory Science
- Research Methods & Biostatistics
- Bioinformatics in Health Sciences
- Clinical Applications of Molecular Diagnostics in Healthcare
- Molecular Technology in Clinical Laboratory
- Workshops on Advanced Molecular Diagnostic Technology

Elective Subjects (maximum ONE from non-HTI subjects#)

- Advanced Topics in Health Technology (guided study)
- Cell and Gene Therapy in Healthcare
- Clinical Chemistry
- Clinical Laboratory Management
- Epidemiology
- Evidence-based Traditional Chinese Medicine
- Haematology and Transfusion Science
- Histopathology and Cytology
- Immunology
- #Knowledge Management for Clinical Applications
- Medical Microbiology
- #Molecular and Functional Imaging: From Body System to Molecules
- Professional Development in Infection Control Practice
- #Radiation Protection and Radiation Safety
- #Virtual Reality 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.

