College of Medical Laboratory Technologists of Ontario

GENETICS REFRESHER COURSE LIST

Courses on this list are approved for Registrants and Applicants who are eligible to practice in **Molecular Genetics** and **Cytogenetics**.

Courses on this list are also approved for Applicants who have not been actively engaged in medical laboratory technology. One may complete course(s) relevant to specialty/specialties in which registration is being sought. Please note that this list is a summary of course information. Registrants and Applicants should contact the institution offering the course(s) for the most up-to-date detailed information/registration protocols and costs. All refresher/updating courses must have an evaluation component, and the transcript **MUST** state the number of hours in the course. Fees are approximate as of October 2026.

Other courses that are not listed must be submitted to the CMLTO Registration Committee for consideration for approval prior to enrollment (the course must have an evaluation component and be related to medical laboratory science). For more information, please contact the CMLTO Registration Department by e-mail at registration@cmlto.com.

Distance Education courses identified by 💻 **1 PEP hr = 1 refresher course hr** **1 CEU hr = 10 refresher course hrs**

Institution	Outline	Prerequisites/More Info	Duration/Fee
The Michener Institute of Education at UHN	**HGCE110 HUMAN GENETICS** This course has been created to support the understanding of Human Genetics through the study of cells, cell division, modes of inheritance, human ancestry and human evolution. This is an excellent introductory course in Human Genetics for health care practitioners, internationally trained health care practitioners and those interested in developing careers in human/medical genetics.	Course information	Length: Continuous enrolment max 6 months 4.80 CEU Domestic $985.00 💻 International: $1231.00

The Michener Institute of Education at UHN	**MGCE110 MOLECULAR GENETICS** This course has been created to support the understanding of Molecular Genetics through the study of DNA, gene expression and mutations, DNA sequencing, genetic testing and treatments, cancer genetics and other DNA-related technologies. This is an excellent introductory course in Molecular Genetics for health care practitioners, internationally trained health care practitioners and those interested in developing careers in human/medical genetics.	Course information	Length: Self-study, max 6 months 4.80 CEU Domestic $985.00  International: $1231.00
The Michener Institute of Education at UHN	**MLCE897 – Cytogenetics** This course provides a comprehensive overview of Cytogenetics, equipping learners with the foundational knowledge and practical skills necessary to examine chromosomes and identify chromosomal abnormalities. By combining theoretical learning with hands-on practice, this course ensures learners are prepared to apply their knowledge in real-world settings using advanced techniques such as karyotyping, FISH, and chromosomal microarray analysis.	Course Information	16-Week Hybrid Delivery With 3 mandatory in-person sessions Application Deadline: November 6, 2026 Fee: $3,000.00