MEDICAL LABORATORY SCIENCE
OVERVIEW
The Master of Science in Medical Laboratory Science (MMLS) program is designed to provide students with the knowledge and skills required for leadership opportunities in management, education, research and advanced clinical practice in the medical laboratory science profession.

Individuals may enter the program via two tracks, depending on their background:

- **Track One** is for individuals with a bachelor’s degree who are not certified in medical laboratory science but desire a career in the clinical laboratory sciences. Upon completion of the program, these students will be eligible to take the national certification exam in medical laboratory science offered by the American Society of Clinical Pathology (ASCP).

- **Track Two** is for medical laboratory science-certified graduates who seek advanced training in evidence-based practice, health care management and scientific research.

Both Track One and Track Two involve a research-based capstone project that will engage students in hands-on research methodology, experimental practice, and scientific communication. The capstone project provides students with the opportunity to develop important skills in clinically-related research.

Program faculty conduct research that aims to understand the molecular mechanisms of human disease, with particular emphasis on immune cell activation, gene expression and molecular signal transduction. Our faculty offer advanced practice courses in molecular methods, clinical laboratory correlations, health care management, policy, ethics, quality, research design and methods; and research experiences to prepare graduates of both tracks to become future leaders in the profession.

Students in Track One will complete a semester-long clinical internship at one of the hospitals within the University of Vermont Medical Center Network (UVM Medical Center Campus, Champlain Valley Physician’s Hospital Campus, and Central Vermont Medical Center Campus) as part of the core NAACLS-accredited program.

DEGREES
- Medical Laboratory Science M.S.

FACULTY
**Amiel, Eyal**; Assistant Professor, Department of Medical Laboratory & Radiation Sciences; PHD, Dartmouth College

**Deming, Paula**; Associate Professor, Department of Medical Laboratory & Radiation Sciences; PHD, ASCP (MT), University of North Carolina at Chapel Hill

**Frietz, Seth**; Assistant Professor, Department of Medical Laboratory & Radiation Sciences; PHD, Harvard University

**Fung, Mark**; Professor, Department of Pathology & Laboratory Medicine, Department of Medical Laboratory & Radiation Sciences; MD, PHD, University of Alabama School of Medicine, University of Alabama Birmingham

**Johnson, Douglas**; Professor, Department of Microbiology & Molecular Genetics; PHD, Purdue University

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