

# Medical Laboratory Technology

Associate in Applied Science Degree

Program MED.LAB.B.AAS  
CIP 511004



Medical laboratory technology is a field of professional study involving students in the exciting and challenging world of science and medicine. Laboratory professionals perform diagnostic laboratory tests on medical specimens which provide information used to diagnose health and disease.

Combining courses in general education and medical laboratory science with a clinical practice conducted at an approved area healthcare facility, the Medical Laboratory Technology program prepares students for careers as medical laboratory technicians. It is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Road, Suite 720, Rosemont IL 60018; 773-714-888 www.naacls.org.

A graduate of the program is eligible for certification by successfully completing the examination given by the American Society for Clinical Pathologists. Graduates are eligible for immediate employment in hospital labs, physician offices, public health labs, as well as pharmaceutical and research companies.

## PROGRAM OUTCOMES

- Integrate knowledge learned and experienced in the disciplines of general education, mathematics, science, and medical laboratory science;
- Achieve entry-level career competencies of a medical laboratory technician by testing biological samples using current technology to generate accurate, quality-assured laboratory results used for health and disease evaluation;
- Utilize critical-thinking skills to assess and problem-solve laboratory data for patient diagnoses;
- Maintain familiarity with the profession's code of ethics and consistently act within those standards during interactions with fellow classmates and working professionals in the clinical setting;
- Describe the importance of continuing education in lifelong learning and in obtaining and upholding professional credentialing;
- Demonstrate academic and technical competence in the professional courses of the curriculum through college and applied clinical education experiences;
- Take the national ASCP certification exam.

Admission to the Medical Laboratory Technology program requires a high school diploma or its equivalent, satisfactory performance on the MCCC college skills placement test, and completion of any required academic foundation courses.

Applicants are encouraged to consult their academic advisor. For further information, contact the MLT program coordinator or visit [www.mccc.edu/mltp](http://www.mccc.edu/mltp).

## Curriculum

Code	Course (lecture/lab/clinical hours)	Credits
<b>PRE-PROFESSIONAL PHASE</b>		
<b>FIRST SEMESTER</b>		
BIO 103	Anatomy and Physiology I (3/3) <sup>1</sup>	4
CSW 100	College Success and Personal Wellness (2/0)†	2
ENG 101	English Composition I (3/0)	3
PSY 101	Introduction to Psychology (3/0) <sup>2</sup>	3
MAT —	Mathematics elective (4/0) <sup>3</sup>	4
<b>SECOND SEMESTER</b>		
BIO 104	Anatomy and Physiology II (3/3) <sup>1</sup>	4
BIO 201	Microbiology (3/3)	4
CHE 101	General Chemistry I (3/3)	4
	OR	4
CHE 107	General and Physiological Chemistry (3/2)	3
CMN 111	Speech: Human Communication (3/0)	3
	OR <sup>4</sup>	3
CMN 112	Public Speaking (3/0)	3
ENG 102	English Composition II (3/0)	3
<b>PROFESSIONAL PHASE</b>		
<b>SUMMER, FALL, SPRING</b>		
MLT 112	Introduction to Medical Laboratory Technology (2/3)	3
MLT 200	Clinical Chemistry (3/2)	4
MLT 207	Clinical Immunohematology (3/3)	4
MLT 212	Clinical Hematology (3/3)	4
MLT 214	Clinical Microbiology (5/3)	6
MLT 215	Clinical Practice (560 hours)	10
		65

<sup>1</sup> BIO 103 and 104 are acceptable alternatives for BIO 101 and 102. Consult academic advisor for details.

<sup>2</sup> PSY 101 is the preferred Social Science elective. Consult academic advisor for details.

<sup>3</sup> Select from MAT 135, 140, 146, 200.

<sup>4</sup> CMN 111 or 112 is the preferred general education elective. Consult academic advisor for details.

† Some exemptions apply. Consult academic advisor for details.

NOTE: Students must earn a minimum grade of C in all BIO, CHE, MAT, and general education courses within two attempts. Students must earn a minimum grade of C+ in all MLT courses during the professional phase within two attempts.

## B.S. (Bachelor of Science) Degree Completion

In addition to acquiring certification, successful graduates of the Medical Laboratory Technology A.A.S. program can apply to bachelor's degree completion programs through established articulation agreements arranged with MCCC and a variety of four-year colleges. Students follow the standard MLT curriculum (above), with course substitutions and additional coursework as follows:

- **FIRST SEMESTER:** select MAT 146 as the Mathematics elective
- **SECOND SEMESTER:** select CHE 101 instead of 107
- **additional science courses:** BIO 101, 102, 208; CHE 102
- **additional general education courses:** HIS 112, 113; MAT 200; world language levels I and II