Blessing Hospital
School of Medical
Laboratory
Technicians



June 2019-2020 Course Catalog

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ADMISSION POLICIES & PROCEDURES

Admission Procedures:

The following steps are to be taken to complete your application for admission to Blessing Hospital School of Medical Laboratory Technicians. Due to limited clinical space, qualified applicants will be selected on a first come basis, so early application is encouraged.

- a. Enroll in the area college of the student's choice and complete the prerequisite classes.
- b. Applicants should apply before **May 17** for summer semester admission.
- c. Prepare and forward with the application, <u>a written interest statement</u>, explaining why you would like to become a Medical Laboratory Technician. Discuss: What qualities you possess that would benefit the Laboratory. What are your long term career goals? Or discuss one of your proudest accomplishments?

 This statement will be evaluated and scored for content and grammar.
- d. Have high school transcripts and college transcripts to date forwarded to School of MLT (address on page 4). GPAs and science and mathematics scores from both transcripts will be tallied as part of the applicants overall score.
- e Arrange to have **three (3) written** educational and/or professional references forwarded to MLT Program Director. References will be included in the applicant's review score.
- f. All students seeking admission are notified of acceptance upon completion of interviews. Rejected students are notified as it becomes apparent that the student does not meet the criteria for admission.
- g. Students accepted into the program must submit a non-refundable \$100 acceptance fee along with their acceptance form. This fee will be applied toward tuition.
- h. Health examinations are to be completed prior to beginning the training program. Vaccination updates will also be required.
- i. A background check of all successful applicants will be conducted by Blessing Hospital as required by Illinois law. All students must pass a urine drug screen upon admission and will be subject to random drug screens during their training.

Tuition & Fees

Tuition......\$5,600 Lab Fees.....\$300.00 Graduation Fee....\$100.00 Total Cost.....\$6,000.00

All payments and arrangement for payments should be directed to:

Nancy Campbell

Blessing-Rieman College of Nursing

217-228-5520 Ext: 6996 ncampbell@brcn.edu

Financial Aid

After acceptance into the School of Medical Laboratory Technicians, students are instructed to contact the Financial Aid Officer of Blessing Rieman College of Nursing to determine eligibility for financial aid. Aid is awarded based upon academic excellence and demonstration of financial need. Aid is available from the following federal programs: Stafford Loan, PELL Grant and PLUS program. Additional information and applications for financial aid may be obtained directly from the Blessing Rieman College of Nursing Financial Aid office.

Students are reminded that they may not obtain financial aid from two institutions during the same academic semester.

All information concerning the student's financial status and financial aid is kept in strict confidence.

All financial aid questions should be directed to:

Erin McHargue

Financial Aid Coordinator
Blessing-Rieman College of Nursing & Health Sciences
217-228-5520 Ext. 6993
mchargue@brcn.edu

Admission Policies:

The following minimum requirements are used as guidelines for admission to Blessing Hospital, School of Medical Laboratory Technicians.

- 1) Completion of pre-requisite courses and/or science courses at an approved college or university.
 - We are seeking students with 3.0 or better GPA in science courses and an overall GPA of 2.5
- 2) Demonstrated interest in medical laboratory career.
- 3) It is our policy to admit students based upon their qualifications only, without regard to sex, sexual orientation, ancestry, race, color, religion, national origin, age, physical or mental disability, marital status, unfavorable discharge from military service, or the presence in any group protected by law.
- 4) Students will be asked to review the entry level competencies (enclosed) of a MLT and the essential functions (or physical demands):

Communication:

The student must be able to read, write and speak English to communicate effectively with instructors and members of the healthcare team.

The student must be able to comprehend, analyze and synthesize scientific information written at the college level.

The student must be able to follow directions and work with speed and accuracy.

Hearing:

The student must be able to recognize instrument noises, alarms and use the telephone. The student must be able to follow oral instruction.

Mobility:

The student must be able to move freely and safely in small spaces, and move around laboratory instruments and patient's beds.

The student must be able to reach laboratory benchtops and shelves and move objects both vertically and horizontally. (Some lifting in excess of 30 lbs.)

The student must be able to tolerate extended periods of sitting, standing, walking, bending and/or twisting at the waist and neck and moving quickly.

The student must have sufficient fine and gross motor skills to safely collect and handle patient specimens, handle laboratory chemicals, and perform repetitive functions including operating laboratory instruments and using computer keyboards.

Acuity:

The student must be able to clearly see to perform laboratory procedures, including microscopic work(Distinct at 20 inches or less).

The student must be able to distinguish color and clarity.

The student must be able to discern veins through tactile senses.

Behavior:

The student must remain calm and exercise judgment during periods of stress.

The student must be able to work collaboratively with peers and instructors.

The student must be able to accept constructive criticism and work to improve performance.

The student must recognize potentially hazardous conditions and follow laboratory safety practices.

The student must remain adaptable to change.

The student must state that they believe they can meet these functions.

Criteria for Admission:

- 1) An applicant for the MLT program must be at least 18 years of age, a high school graduate, in good health and able to perform the duties which the training and profession demands.
- 2) Students should demonstrate a strong desire to obtain a career in the laboratory as demonstrated by early contact with program officials, and letters of recommendation.
- 3) The student's application and high school and college transcripts will be evaluated for the following:

High school GPA

College GPA

ACT scores

High school & college science and math grades

Honors

Previous work experience in healthcare

Strength of references

4) The applicant's personal interest statement will also be evaluated for content, grammar and spelling.

Composition of the Admissions Committee:

The Admission Committee is composed of the Program Director, members of laboratory administration, and members of the school's faculty.

Degree Plan

Blessing Hospital School of Medical Laboratory Technicians prepares individuals to assume careers in hospitals, clinics and physician's offices, as well as industry and veterinary laboratories. In the laboratory, the MLT performs a wide variety of analytical procedures under the supervision of a medical technologist or pathologist. They are responsible for the collection and processing of specimens, preparation of cultures and slides, and calibration of instruments. They perform analytical procedures in the areas of clinical chemistry, hematology, microbiology, blood banking, and immunology. MLTs are required to have sound analytical judgment, manual dexterity, computer skills, and the ability to work well under pressure while remaining accurate and precise in their work. Upon successful completion of the program, graduates will be awarded a certificate from Blessing Hospital and will be eligible for an AAS degree in Medical Laboratory Technology. Pending completion of the program, students are eligible for national certification exams for MLT. For more information on requirements for Board of Certification American Society of Clinical Pathologist, please visit their website at: https://www.ascp.org/content/board-of-certification.

Prerequisites or first year classes can be taken at the student's college of choice. They can be scheduled as full time, part time, day or evening classes. All pre-requisites must be completed prior to acceptance at Blessing Hospital. The MLT courses are offered only during the day and the curriculum is geared for full-time students. MLT courses are offered once per calendar year with a cohort that begins in June. Entry into the School of MLT is limited by space in the clinical practicum courses. Students must apply for admission after completion of one semester of pre-requisite courses with a "C" or better average.

Admission Requirements: Students must apply and be admitted to the School of MLT prior to registering for MLT 101 or higher courses. To complete an application to the School of MLT, the student must submit the following:

- 1. Application to School of Medical Laboratory Technicians. (Students will be asked to submit references and a personal interest statement along with their application.)
 - 2. High School transcript or GED scores.
 - 3. Official transcript from colleges attended.
 - 4. Documentation of review of the Essential Functions of a Medical Laboratory Technician. This is in keeping with the federal Americans with Disabilities Act.

Students will be required to complete a physical examination and to have their vaccinations updated prior to entry into the program. They will also be required to pass a background check and random urine drug screenings.

Accreditation: The program is accredited by:

National Accrediting Agency for Clinical Laboratory Science (NAACLS) 5600 N. River Rd Suite 720 Rosemont. IL 60018 (773) 714-8880 www.naacls.org

Program Requirements:

- 1. Prior credits in biology, chemistry and mathematics must have been earned within the past five years.
- 2. Students must complete all MLT courses with a 75% or better to continue in the program.
- 3. Students are responsible for their own transportation, books and uniforms.

Pre-requisite Courses (33 hours)

Pre-requisite credits may be obtained from any accredited college or university. The course numbers below reflect John Wood Community College courses.

		, ,	
	BIO 275	Human Anatomy & Physiology I	4 cr. hrs
	BIO 276	Human Anatomy & Physiology II	4 cr. hrs
or	BIO 101	General Biology	4 cr. hrs
	BIO 293	Microbiology	4 cr. hrs
	CHM100	General Chemistry	4 cr. hrs
04	MAT 113	College Algebra	3 cr. hrs
or	MAT 109	Elementary Statistics	3 cr. hrs
	ENG 101	Rhetoric & Composition I	3 cr. hrs
	ENG 102	Rhetoric & Composition II	3 cr. hrs
04	CMN 101	Introduction to Speech	3 cr. hrs
or	CMN 104	Interpersonal Communications	3 cr. hrs
	PSY 101	Introduction to Psychology	3 cr. hrs
or	PHL 121	Ethics	3 cr. hrs
	FYE 101	Blazing your Trail	1 cr. hr
	CSC 100	Computer Literacy	1 cr. hr.

Total hours accredited college or university

33 cr. hr.

Credits for pre-requisite courses can be no older than 5 years. Additional courses may be required to meet the degree requirements of the college.

Medical Laboratory Technician Courses

*	MLT 100	Phlebotomy Principles	3 cr. hrs.
*	MLT 101	Intro. to Clinical Laboratory	3 cr. hrs.
*	MLT 102	Clinical Microscopy (urine/body fluids)	3 cr. hrs
*	MLT 204	Immunology/Serology	2 cr. hrs
**	MLT 205	Fundamentals of Clinical Chemistry	3 cr. hrs
**	MLT 206	Hematology	4 cr. hrs
*	MLT 207	Medical Microbiology	4 cr. hrs
**	MLT 208	Immunohematology	3 cr. hrs
*	MLT 121	Concepts of Clinical Lab	2 cr. Hrs
*	MLT 224A	Clinical Practicum I	3 cr. Hrs
*	MLT 224B	Clinical Practicum II	3 cr. Hrs

Total Hours from Blessing School of MLT

33 cr. Hrs

Suggested Course sequencing

Perquisite Courses

Semester 1 (F	Fall)						
BIO 101* General Biology							
CHM	Chemistry	4 cr. hrs					
MAT	109* Elementa	ry Statistics	3 cr. hrs				
ENG 1	01* Rhetoric &	& Comp. I	3 cr. hrs				
CHM	101* Introducti	ion to Speech	3 cr. hrs				
		Total	17 cr. hrs				
Semester 2 (S	Spring)						
		atomy & Physiology I	4 cr. hrs				
BIO 29	93* Microbiolo	ogy	4 cr. hrs				
PSY 1	01* Introduction	on to Psychology	3 cr. hrs				
ENG 1	02 Rhetoric &	c Comp. II	3 cr. hrs				
CSC 1	00 Computer l	Literacy	1 cr. hr				
FYE 1	01 Blazing Yo	ur Trail	1 cr. hr.				
	_	Total	16 cr. hrs				
Summer Sem	ester (At Bles	sing Hospital)					
*	MLT 100	Phlebotomy Principles	3 cr. hrs				
*	MLT 101	Intro. to Clinical Laboratory	3 cr. hrs				
*	MLT 102	Clinical Microscopy (Ur/BF)	3 cr. hrs				
*	MLT 121	Concepts of Clinical Lab	2 cr. hrs				
		Total	11 cr. hrs				
	(At Blessing						
	MLT 206	Hematology	4 cr. hrs				
	MLT 207	Medical Microbiology	4 cr. hrs				
*	Clinical Practicum I	3 <u>cr. hrs</u>					
		Total	11 cr. hrs				
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	ster (At Blessii	<u> </u>	2 1				
	MLT 205	Fundamentals of Clinical Chemistry	3 cr. hrs				
	MLT 208	Immunohematology	3 cr. Hrs				
	MLT 204	Immunology/Serology	2 cr. Hrs				
**	MLT 224B	Clinical Practicum II	3 cr. Hrs				
		Total	11 cr. Hrs				

- 33 Credit Hours Required from Blessing
- (JWCC will apply 33 hours of credit towards an AAS degree upon completion Blessing courses)
- * Prerequisite courses from JWCC or other accredited college.
- Courses from Blessing School of MLT

MLT Course Descriptions

Students must apply and gain admission to the School of MLT before they can enroll in courses numbered greater than MLT 100. Courses are offered only at the stated times.

MLT 100 Phlebotomy Principles

3 cr. hrs

A course designed to give students a thorough background in blood collection techniques. Course topics include safety precautions and infection control, collection equipment, anticoagulants, venipunctures procedures, skin puncture and special collection procedures. Communication skills, professional ethics and legal issues will also be discussed. This course along with MLT 120, Clinical Practicum I may also be completed by students interested in obtaining phlebotomy certification.

MLT 101 Introduction to the Clinical Laboratory 3 cr. hrs

A course designed to introduce the MLT student to the basic principles of each area of the clinical laboratory. Basic normal hematology, coagulation methods, and chemistry profile tests will be introduced. Students will learn aseptic techniques, specimen collection, growth requirements of bacteria, media and techniques used to culture microorganisms. Students will also be introduced to basic blood typing, antibody identification procedures and compatibility procedures in blood bank. Laboratory safety, infection control and blood borne pathogens prevention and patient confidentiality will also be discussed.

Pre-requisite: Completion of college level Anatomy & Physiology and admission to MLT program.

MLT 102 Clinical Microscopy (Urinalysis & Body Fluids) 3 cr. hrs

A course designed to give students a thorough background in urine formation including function & diseases of kidney. Physical, chemical & microscopic features of urine; diagnostic test principles and clinical correlations of lab results will be covered. Students will also study miscellaneous fluid analysis, including CSF, synovial, seminal and fecal analysis. Prerequisite: Completion of college level Anatomy & Physiology and admission to MLT program.

MLT 121 Concepts of Clinical Laboratory 2 cr. hrs

Students will have 6 hours per week of supervised clinical experience in a clinical laboratory in the areas of urinalysis, serology, basic hematology, blood banking and culture inoculation applying the knowledge and skills they learned in the classroom. Clinical practice in phlebotomy will be included.

Prerequisite: Completion of college level Anatomy & Physiology and admission to MLT program.

MLT 204 Immunology & Serology

2 cr. hrs

Immune functions and processes related to natural body defenses will be studied. Included will be antigen – antibody reactions, complement action, cellular response and humoral immune response. Also serological procedures to detect diseases such as syphilis, hepatitis, rheumatoid arthritis, mononucleosis, etc.

Prerequisite: Completion of MLT101 and admission to MLT program.

MLT 205 Fundamentals of Clinical Chemistry 3 cr. hrs

The study and analysis of electrolytes, proteins, lipids, carbohydrates, enzymes, minerals, hormones and various other biochemical compounds in the body. Emphasis will be placed on

basic laboratory techniques, principles of instrumentation and automation, quality control and clinical correlation of lab results.

Prerequisites: Completion MLT 101 and admission to MLT program.

MLT 206 Hematology

4 cr. hrs

A study of red blood cells, white blood cells and platelets and principles and procedures in hemostasis. This course focuses on cell maturation, normal cell function, and the changes in normal and disease states. The pathogenesis of various anemias and leukemias and other hematological disorders is included. Emphasis is placed on identification of immature and abnormal cells and correlation of test results with disease states. The coagulation pathways and the role of coagulation factors and platelets in normal hemostasis and various disease states are studied. Testing principles, disease correlation and problem solving are stressed.

Prerequisites: Completion of MLT101 and admission to the MLT program.

MLT 207 Medical Microbiology

4 cr. hrs

A study of clinically relevant bacteria. Emphasis will be placed on organism identification, biochemical & staining characteristics and clinical correlation with infectious disease. Antibiotic susceptibility testing methods and interpretation will also be studied.

Prerequisites: Completion of college microbiology, MLT101 and admission to the MLT program.

MLT 208 Immunohematology

3 cr. hrs

A study of the principles of transfusion medicine. This course will cover the collection and processing of donor blood and the preparation of components for transfusion. Major topics of discussion include antigens and antibodies of the blood group systems, antibody identification, HDN and the adverse effects of transfusion.

Prerequisites: Completion of MLT101 and admission to MLT program.

MLT 224A Clinical Laboratory Practicum I

3 cr. hrs

Students will rotate through the clinical departments of advanced hematology, chemistry, microbiology and immunohematology applying the knowledge & skills learned in the classroom. The students will be scheduled for three seven-hour days per week.

Prerequisite: Admission to MLT program, completion of MLT101, MLT 102, MLT222, MLT205, MLT206, MLT207 and MLT208 or courses in progress.

MLT 224B Clinical Laboratory Practicum II

3 cr. hrs

A 10 week continuation of Clinical Laboratory Practicum III. Students will be scheduled for four seven-hour days per week.

Prerequisite: Admission to MLT program, completion of MLT101, MLT 102, MLT 204, MLT222, MLT205, MLT206, MLT207, MLT208 and MLT209.

Offsite clinical campuses

Over the course of approximately 30 week of clinical training, students will rotate through all departments and perform current routine procedures by state-of-the-art methodologies. Appropriate amounts of time are spent working in each particular discipline; to accomplish this, some students rotate through offsite clinical laboratories. Staff at the affiliated laboratory directly supervises students; there is ongoing contact with the instructor in the form of site visits and Monday and Tuesday class sessions during the week.

Offsite campuses:

Hannibal Clinical, Hannibal, MO McDonough District Hospital, Macomb, IL

Job Entry Level Competencies

Upon completion of training at Blessing Hospital, School of Medical Laboratory Technician, the MLT graduate will be able to:

- 1. Accurately, precisely and responsibly perform assigned medical laboratory procedures and report results appropriately.
- 2. Discuss the principles of commonly performed medical laboratory tests and correlate test results to disease processes.
- 3. Recognize factors that affect procedures and results and take appropriate action by performing problem solving procedures within their job description or referring information to supervisors for interpretation.
- 4. Recognize abnormal and questionable test results in association with clinical disease.
- 5. Operate common laboratory equipment and perform routine calibration and maintenance according to established procedures, following orientation to the equipment.
- 6. Perform and record scheduled preventative maintenance on instruments/equipment. Recognize malfunctioning instruments and referring to appropriate sources for assistance in troubleshooting.
- 7. Perform and interpret quality control testing according to established procedures and recognize "out of control" situations; notifying a senior technician or following established corrective policies.
- 8. Prioritize test requests to maintain patient care standards and efficiency.
- 9. Calculate and record test results.
- 10. Collect biological specimens for analysis.
- 11. Make specimen oriented decisions using predetermined criteria, including a working knowledge of critical values.
- 12. Demonstrate the ability to use laboratory information systems and instrument computer applications effectively.

Entry Level Competencies

- 13. Demonstrate interpersonal communication skills with patients, laboratory staff, other health care professional and the public, treating them with respect, caring and thoughtfulness. Communicate specimen requirements, reference ranges and test results to authorized sources. Follow HIPAA guidelines in all communications.
- 14. Interact with other health care personnel to facilitate their jobs and provide quality patient care.
- 15. Apply basic scientific principles to learning new techniques and procedures.
- 16. Comply with safety and work place policies and procedures.
- 17. Demonstrate professional and ethical behavior.
- 18. Demonstrate laboratory technical skills to new technicians and students.
- 19. Aid in drafting and reviewing test procedures.
- 20. Accept and adapt to administrative and technical changes.
- 21. Act upon individual need for continued study and knowledge to grow and advance professionally and share such knowledge with colleagues, other healthcare professionals and the public.

Program Outcomes

Blessing Hospital's School of Medical Laboratory Technology (MLT) program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). As part of this accreditation process, the following rates for the MLT program are reported annually.

a. BOC Exam Scores

The following table shows the passing rate for Blessing Hospital's MLT graduates who taken the MLT ASCP BOC Certification exam within one year (12 months) of graduation by the academic year of graduation. The academic year at Blessing Hospital's School of MLT begins in July and concludes in August of the following year.

Academic Year of Graduation	Number of Program Graduates	Number of Program Examinees within 12 months	Number of Examinees Passing First Time within 12 months	First Time Pass Rate	Mean Scaled Score Blessing Students	National Mean Scaled Score
2017-2018	6*c	6	6	100%	631	489
2016-2017	4*b	4	4	100%	531	503
2015-2016	4	4	4	100%	581	517
2014-2015	4	3	3	100%	553	515
2013-2014 *	4	2	2	100%	655	498

- b. *b one student graduated in December 2017
- c. *c one student graduated in September 2018
- d. * 2014 Due to the republication of the MLT(ASCP) certification examination beginning October 1, 2014, annual statistics for 2014 are not able to be compiled for a full year. However, "annual" statistics have been generated for January September 2014.
- e. Note: Students sometimes choose not to take the certification exam for personal reasons, e.g., attending graduate school, medical school, military, etc.

f. Graduation/Attrition Rate

This table shows the number of students that began the final half of Blessing Hospital's MLT program (defined as successfully completing the summer courses) and continued on to graduate.

For students slated to graduate between	# who began final half of MLT program	# who began final Half but left	# who began "final half" but are currently enrolled	# who began "final half" of the program during given time period and have since graduated	Yearly Attrition Rate (%)	Yearly Graduation Rate (%)
7/2017- 8/2018	6	0	0	6	0	100
7/2016- 8/2017	6	2	0	4	33	67

7/2015- 8/2016	5	1	0	4	20	80
7/2014- 8/2015	4	0	0	4	0	100
7/2013- 8/2014	4	0	0	4	0	100

g. Three Year Average Graduation Rate Percentage = 82%

h. Post-Graduation Employment/Placement Rate

This table shows the number of graduates who found employment (in the field or related field) and/or continued their education within one year (12 months) of graduation.

Year of Graduation	Total Graduates	Graduates Employed	Graduates Continuing Education	Unknown	Total Employed or Continued Education within 12 months of Graduation
2018	6	5	0	1	83%
2017	4	4	0	0	100%
2016	4	4	0	0	100%
2015	4	4	0	0	100%
2014	4	4	1	0	100%

i. This table shows the number of graduates who found employment(in the field or related field) and/or continued their education within one year of graduation.

j. Three Year Average Placement Rate Percentage = 93%

Admissions Statement

I have reviewed the attached entry level competencies for a Medical Laboratory Technician and the essential functions (physical demands). I understand the expectations of a MLT and believe I can fulfill these requirements.

Essential functions:

Communication:

- The student must be able to read, write and speak English to communicate effectively with instructors and members of the healthcare team.
- The student must be able to comprehend, analyze and synthesize scientific information written at the college level.
- The student must be able to follow directions and work with speed and accuracy.

Hearing:

- The student must be able to recognize instrument noises, alarms and use the telephone.
- The student must be able to follow oral instruction.

Mobility:

- The student must be able to move freely and safely in small spaces, and move around laboratory instruments and patient's beds.
- The student must be able to reach laboratory benchtops and shelves and move objects both vertically and horizontally. (Some lifting in excess of 30 lbs. will be required.)
- The student must be able to tolerate extended periods of sitting, standing, walking, bending and/or twisting at the waist and neck and moving quickly.
- The student must have sufficient fine and gross motor skills to safely collect and handle patient specimens, handle laboratory chemicals, and perform repetitive functions including operating laboratory instruments and using computer keyboards.

Acuity:

- The student must be able to clearly see to perform laboratory procedures including microscopic work (Distinct at 20 inches or less).
- The student must be able to distinguish color and clarity.
- The student must be able to discern veins through tactile senses.

Behavior:

- The student must remain calm and exercise judgment during periods of stress.
- The student must be able to work collaboratively with peers and instructors.
- The student must be able to accept constructive criticism and work to improve performance.
- The student must recognize potentially hazardous conditions and follow laboratory safety practices.
- The student must remain adaptable to change.

Name	Date
Blessing Hospital School of Medical	Laboratory Technicians
Associate in Applied Scient	ence in MLT

For additional information or an application, contact:

Monsavahn (Von) Lithila MBA, MLS(ASCP)^{CM} MLT Program Director
Blessing Hospital Laboratory
Broadway at 11th St.
Quincy, IL 62301
(217) 223-8400 Ext. 6205

Email: monsavahn.lithila@blessinghealthsystem.org

Or

Visit our website at http://www.blessinghospital.org/?id=1303&sid=2

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