

MEDICAL TECHNICIAN STUDENT HANDBOOK INDEX

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WELCOME TO THE TURTLE MOUNTAIN COMMUNITY COLLEGE MEDICAL LABORATORY TECHNICIAN PROGRAM

Welcome to the Medical Laboratory Technician Program at Turtle Mountain Community College (TMCC) The Medical Laboratory Technician Program offers a two year Associate of Applied Science Degree. The faculty and staff wish you success in the pursuit of you educational goals. We are glad to have you and will treat you with courtesy and respect. The student is our only product and consequently, our most important product. Therefore, we are here to assist you in gaining an education both within the classroom and in clinical activities scheduled for application of knowledge gained from the classroom.

The Turtle Mountain Community College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools (NCA) 230 South LaSalle Street, Suite 7-500 Chicago, Il 60604. The Medical Laboratory Technician Program at TMCC is accredited by National Accrediting Agency for Clinical laboratory Sciences (<http://www.naacls.org>) 5600 N. River Rd., Suite 720, Rosemont, Illinois 60018: (733) 714-8880. NAACLS accreditation assures students that they will be provided with a quality education in Laboratory Science. Upon successful completion of the Medical Laboratory Technician

Program the graduate is eligible to take a national board of certification exam. Graduation from the program is not contingent upon passing an external certification exam.

The purpose of this handbook is to detail policies and procedures specific to the Medical Laboratory Technician Program. It is constructed to be used as a supplement to the Turtle Mountain Community College catalog and student handbook. The policies and procedures set forth in this handbook are designed to support the success of the student.

A copy of the Turtle Mountain Community College catalog and student handbook is available at the Campus's Student Services offices or may be downloaded from the TMCC web site at <http://www.tm.edu>

For more information concerning the Turtle Mountain Community College Medical Laboratory Technician Program you may contact the following Individuals:

1. Mr. Tyler Parisien Program Director (701) 477- 7862 Ext.2905
tparisien@tm.edu
2. Ms. Marilyn Delorme Medical Laboratory Instructor (701) 477- 7862 Ext. 2904 mdelorme@tm.edu
3. Ms. Dorothy Hoffer, Medical Laboratory Instructor (701)477-7862 Ext. 2947 dhoffer@tm.edu

MISSION STATEMENT

The Turtle Mountain Community College (TMCC) Medical Laboratory Technician Program is committed to providing an educational program consistent with the standards outlined by the. **NAACLS 5600 N. River Rd, Suite 720 Rosemont IL 60018-5119; phone: 773.714.8880; fax: 773.714.8886; info@naacls.org**. The purpose of the TMCC Medical Laboratory Technician Program is to train students to be competent Medical Laboratory Technicians.

PROGRAM GOALS

1. Provide a professional learning environment for students.
2. Provide a curriculum that will give students the skills necessary to demonstrate entry level proficiency in all areas of Laboratory Science.
3. Provide the number of credits to fulfill transferability to a four year Laboratory program.
4. Provide the student with the opportunity for personal as well as professional growth.
5. Provide examples following the Seven Teachings enabling students to learn respect for others, themselves and the medical community as described in the Code of Ethics.

DESCRIPTION OF THE PROFESSION

The health of all Americans depends upon the educated minds and trained hands of the Medical Laboratory Professional. The practice of modern medicine at the

exacting standards currently required would be impossible without the scientific testing performed daily in the medical laboratory. Maintenance of these standards and progress toward improvement in the quality of laboratory services depends on the dedicated efforts of professional practitioners of medical laboratory science.

Medical Laboratory Technicians are proficient in:

- Collection, handling, preparation, and storage of biological specimens for laboratory analysis;
- Performance of technical analyses on body fluids, cells, products, and organisms;
- Recognition of factors that affect procedures and results and take appropriate action within predetermined limits;
- Ability to operate basic laboratory instrumentation;
- Performance of quality control measures on instrumentation and technical analyses;
- Recognition of and adherence to clinical laboratory safety policies;
- Ability to troubleshoot instrumentation and technical analyses;
- Ability to perform preventative and corrective maintenance on basic laboratory equipment and instrumentation;
- Ability to recognize when to refer instrumentation problems to the appropriate sources;
- Demonstration of professional conduct with patients and health care workers both within and outside the laboratory;
- Demonstration of effective interpersonal communication skills;

- Demonstration of knowledge of the relationship of laboratory findings with common diseases processes;
- Demonstration of knowledge of reporting patient results using a laboratory computer information system;
- Recognition of the need for continuing education in professional practice and action on that recognition.

CODE OF ETHICS

- The students enrolled in the Medical Technician Program will apply the seven teachings of the Anishinabe as their “code of ethics.”

THE SEVEN TEACHINGS

WISDOM

- The Medical Technician Student through an educational program will gain the “Wisdom” needed to be a medical professional and become an important part of the Medical Laboratory Team.

LOVE

- The Medical Technician Student will be taught a “Love” for their profession and through that love will perform work that is ethical, of high quality and above all with compassion.

RESPECT

- The Medical Technician Student will be taught the importance of respecting ones leaders and co-workers of whatever medical team they are a part of they will learn to “Respect” and protect the dignity and requests of the sick

BRAVERY

- The Medical Technician Student will be taught the tools needed to have the Bravery to take that initial step to encounter their first patient with confidence.

HONESTY

- The Medical Technician Student will be taught the importance of Honesty in following performance procedures correctly and how, by not doing so could effect a patient’s results and ultimately their diagnosis and treatment.

HUMILITY

- The Medical Technician Student will be taught the Humility of acknowledging making a mistake and not to try and cover it but correct and learn from it.

TRUTH

- The Medical Technician Student will learn the Truth about their patients’ conditions and will be taught to hold those truths in strict confidence as if they were their own.

TMCC ADMISSION POLICIES

The standard admission policies are printed in the college catalog. (Pages 12-15)
The current admission policies for the Turtle Mountain Community College Medical Laboratory Technician Program have been revised since the current catalog was published. The new policies are printed in the local newspapers, posted in the Allied Health building and in the student union. They are also being posted to the new web site.

Turtle Mountain Community College Admissions Policies Admission and General Information

Student Responsibility for Satisfying Requirements

Each student has complete responsibility for complying with the instructions and regulations set forth in the catalog, for selecting courses that will satisfy his/her educational objectives, and for satisfying course prerequisites. Student Services Staff and Advisors are always available and willing to assist students. The college does not assume responsibility for student misinterpretation of policies and procedures presented in the catalog. Any question concerning the content of TMCC's Catalog should be referred to the Dean of Academic Programs and/or Dean of Student Services.

Admissions

All correspondence regarding admission to the college should be addressed to the Admission Officer. Each student is urged to make application for fall/spring semester admission as early as possible.

If a student is denied admission to the college, he/she may appeal to the Admission and Financial Aid Committee for a case review. Any questions concerning appeal procedures should be addressed to the Admissions Officer.

Selective Admission Policy

Turtle Mountain Community College has an open-admission policy for most of its programs. However, the college does reserve the right to institute a selective

admission policy in programs of study where limitations are necessary; such as in the Allied Health Programs where student numbers may be limited by Certifying Agencies, currently 12 students.

General Admission Requirements-New Students/Students Seeking Readmission
An applicant who wishes to be considered for admission must have the following documents on file:

- A complete application for admission.
- An official transcript from an accredited or approved high school with the date of graduation, or the official transcript of the General Education Development (GED) examination
- Transfer students must provide an official transcript of all previous college work
- A Certificate of Degree of Indian Blood from a federally recognized tribe, if applicable

The student will be required to complete the above admissions requirements before registering. If any of the requirements are not satisfied, a letter will be sent to the student. It is the responsibility of the student to ensure all documents are received before registering for classes. Students who have completed all admission requirements will receive a letter of acceptance. The letter will contain information on orientation, registration and first day of classes.

Financial Aid

The Turtle Mountain Community College Financial Aid Office, utilizing one or more of the student aid programs described in this section, will make every effort to provide adequate financial assistance to the student that demonstrates legitimate financial need. Priority consideration deadlines are as early as March 15 for some programs. Applications received after May 1, will be considered on a funds-available basis. The Financial Aid Director will make an effort to satisfy the

student's unmet need to the maximum, if possible, from available sources. The student is free to accept or decline any aid that is offered.

Financial aid is awarded for one academic year. A student must complete a new FAFSA application each year. A student who wishes to apply for financial aid should contact the Financial Aid office for information and application forms.

Policy and Procedure for Registration/and Academic Record Information

Registration dates for each term are shown in the academic calendar at the front of this catalog, posted on the college website, listed in the student handbook and posted at various locations around campus.

Registration is conducted each semester. See the academic calendar at the front of this catalog for dates. Faculty is available to advise students during the fall/spring registrations. Starting one to two weeks before registration, prospective students are informed by mail and media about the date, time, and place of registration.

Orientation is an organized informational seminar and an important part of the registration process. Orientation is a requirement for all students. At the session, staff and peer mentors present an overview of information for all freshmen and transfer students who intend to enroll for the semester. See the academic calendar at the front of this catalog for the date.

Pre-registration is conducted for one week in the fall semester for currently enrolled students seeking enrollment for the next term. See academic calendar for dates.

All new students are required to take placement tests in the following areas: English, math and science. Students who lack basic skills based upon these results of these tests will be required to register in appropriate courses. Students will have a one-time opportunity to challenge the test results. See Academic calendar for dates.

Registration forms are available in Student Services. All students will be required to pay a registration fee of \$25.00, regardless of how many credits the student registers for in that semester. This fee will be assessed each semester.

MEDICAL LAB TECHNICIAN

STUDENT SELECTION

Students applying for the MLT Program must follow the General Admission Policies outlined in the TMCC Catalog. Upon acceptance to the Institution, a student may apply for the Medical Lab Technician Program. Applications can be obtained from the MLT Program Director. Note: Applications that are not received or postmarked by the deadline of June 15th of each year will not be considered in the initial admissions process into the MLT program.

Applicants for the program must have:

- A letter of acceptance to the Institution from the TMCC Admissions Officer
- Complete TMCC Clinical/Medical Lab Technician Program Application
- A minimum of one year of high school biology and chemistry or their applicable equivalents within the last 10 years with a grade of “C” or better.
- Applicants must demonstrate readiness for English 110 and Math 111 as determined by the College’s placement tests or by documentation of successful completion of identified developmental course work.
- TB tests and immunizations must be on file prior to beginning any Clinical Laboratory Technician classes. Health problems which would interfere with the applicant’s ability to meet program objectives will be addressed on an individual basis.
- Applicants must obtain a Criminal Record Check and a Child Abuse Clearance.

Once a potential student meets the entrance requirements, the MLT Program Director will schedule an interview. During the interview process the student will be advised that participation in MLT Program requires:

- Interest in Science and Math Classes.
- Good communication skills
- Strong organizational skills
- Desire to work with people
- Maintaining a minimum 2.00 GPA in all MLT Program Curriculum Courses

- Obtaining a background checks as well as drug screens prior to entering a Clinical Rotation
- Compliance with HIPPA Regulations
- Completion of CLS 103 Phlebotomy with a grade of “C” or before entering into a Clinical Rotation
- Completion of all General Education classes before entering into a Clinical Rotation
- Review of essential functions for MLT Program
- A selection committee at TMCC will select 12 students, based upon space, into the MLT program. Student selection is determined by favorable review of the application and interview process, along with the applicant’s ability to meet the specific requirements of the program. Applicants will be notified by mail by August 1 of each year regarding the status of their application. Applications of those who are not admitted *will not be carried over* to the following year. Applicants must reapply to the MLT Program by the next application deadline. Applicants must comply with the admission requirements for the current program year. It is the responsibility of the applicant to be aware of any change in criteria. Current admissions information can be obtained from the MLT Program Director.
- Please be informed that a Criminal Background check is required prior to entering any MLT internship. In the event the student background check reveals any disqualifying factors that student will not be permitted to continue with the internship portion of the program (note: successful completion of all MLT internships is a graduation requirement). Information on how to acquire / perform the background check will be provided to all students accepted to the MLT program. Students will be required to submit a signed Student Verification and HIPPA Disclosure Form.
- A grade of “C” or better in all Medical Laboratory Science courses.
- A passing grade in all required courses.
- A minimum 2.0 cumulative grade point average in the MLT program.

**TURTLE MOUNTAIN COMMUNITY COLLEGE
MEDICAL LAB TECHNICIAN
(MLT) PROGRAM**

MLT students are candidates selected for admission into MLT program of study; after meeting the Standard admission requirements of TMCC.

Please type or print neatly in blue or black ink

Last Name Name(s)		First Name	Middle Initial	Previous Last
Male	Female	Email address		

Social Security Number	Date of Birth (mm/dd/yyyy)
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Current mailing address number and street	City	State	Zip
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Physical address if different from mailing address	City	State	Zip
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Daytime phone	Evening phone	Message	Cell phone
High school diploma or college degree earned: Yes No		GED earned: Yes	No

Education Information

List all colleges where you have completed MLT prerequisites and/or a degree

College	State	Dates of Attendance	Degree earned/number of credits

I have read and understand the admission criteria for the MLT program at Turtle Mountain Community College. I understand that it is my responsibility to meet all program and application criteria. I verify that all statements on this application are complete and true and I understand that falsification of any information may lead to disqualification or dismissal from the program.

Signature

MLT STUDENT SIGNATURE PAGE

STUDENT AGREEMENT

I have received the 2018-2019 TMCC College Catalog and MLT Student Handbook. I agree to read the handbook and affirm that I will be responsible for all the data therein. I understand and am aware of the contents listed below, as indicated by my initials.

_____ Please initial each item:

_____ Program Accreditation

_____ Program information

_____ Essential Functions

_____ Graduation requirements

_____ Academic Standards

_____ Curriculum and course sequence

_____ Clinical Placement Policy

_____ Progression through the Program

_____ Student Health requirements

_____ Practicum hours

_____ I give the TMCC permission to use pictures taken during my enrollment in the Lab program for recruitment purposes (optional)

I agree to abide by all the rules, policies, and procedures of the program

Print Name: _____

Signature: _____

Date: _____

TURTLE MOUNTAIN COMMUNITY COLLEGE

MLT Curriculum Guide

10/16/2018

Freshman

Credit

Prerequisite

Fall Semester

BIOL 115	Human Structure and Function (or BIOL 220 Anatomy and Physiology... 4)	4	
ENGL 110	Composition I	3	
MATH 111	College Algebra I	3	
CHEM 115	Intro to Chemistry (or CHEM 121)	4	
BOTE 171	Medical Terminology	3	
	Total Credits	17	

Spring Semester

CLS 103	Phlebotomy	3	
CLS 108	Laboratory Techniques	1	
CLS 113	Urinalysis and Body Fluids	3	
CLS 201	Immunology	4	
HPER 210	First Aid/CPR	2	
	Total Credits	13	

Summer		Credit	Prerequisite
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CLS 235	Clinical Chemistry	4	
CLS 246	Parasitology, Virology, Mycology	3	
	Total Credits	7	

Sophomore		Credit	Prerequisite
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Fall Semester

CLS 225	Hematology	4	
CLS 240	Immunohematology (Hybrid)	4	CLS 201
CLS 245	Clinical Microbiology	4	
CLS 161	Integrated Lab Simulation	4	(Second 8 weeks)
	Total Credits	16	

Spring Semester		Credit	Prerequisite
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CLS 254	Clinical Internship	12	
CLS 106	Clinical Seminar	2	
CLS 177	Job Readiness	1	
	Total Credits	15	

	Total Program Credits	68	
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COURSE DESCRIPTIONS

List of course Descriptions

CLS 103 Phlebotomy/Introduction to MLT

3 Credits Pre-requisite:

This course provides instruction in the skills needed for the proper collection and handling of blood and other specimens used for diagnostic purposes. Emphasis is placed on ethics, legalities, safety, universal precautions, national patient safety goals, health care delivery systems, patient relations and communication. Additionally students will understand the pre-analytical variables that affect laboratory specimens and how to work successfully as part of the extended laboratory team. Upon completion, students will have gained educational instruction to be able to demonstrate competency in all areas of theoretical comprehension and techniques of phlebotomy.

CLS 106 Clinical Seminar

2 Credits Pre-requisite: CLS 103 Co-Requisite CLS 255

This course provides the student the opportunity to review with faculty specific learning objectives/competencies, clinical rotation evaluations and provides the student with tools to use in preparation and review for the National and State Certification exams. While enrolled in this class students will be required to participate in Service Learning Activities in which they will use their skills learned in their field of study to benefit the community. Students will take competency exams at the completion of rotation at each section in the laboratory.

CLS 113 Urinalysis and Body Fluids

3 Credits Pre-requisite:

Theory, techniques and practice of urinalysis with emphasis on identification of elements in sediment. Analysis of various body fluids, examination of slides, chemistry of spinal fluids, semen, plural and synovial fluids.

CLS 161 Integrated Lab Simulation

4 Credits Pre-requisite:

This practicum will be presented in allied health laboratory. The instrumentation that will be used by the students with supervision include the Abbott Ruby Hematology analyzer, Piccolo chemistry analyzer, Qualigen, Triage meter, Clinitek Status urinalysis analyzer, CoaguChek XS coagulation analyzer and manual procedures for microbiology.

****Required 60 hours of instruction**

CLS 177 Job Readiness**1 Credit Pre-requisite:**

Job readiness is designed to prepare students to get, keep and excel at a new job. Basic employability skills include effective communication, problem solving, resume building, and interviewing. The course is also designed to help participants develop good work habits that facilitate their ongoing success. Instruction typically includes lectures, discussions, and role playing.

CLS 201 Immunology**4 Credits Pre-requisite:**

The foundations of diagnostic serology, immunohematology, histocompatibility and hematology as well as new technology such as monoclonal antibodies and molecular biology are covered in order for students to become better prepared for a career in laboratory medicine.

CLS 225 Hematology**4 Credits Pre-requisite: CLS 103**

Identification of normal and abnormal blood cells in various hematological disorders. Theory and application of hematology procedures. Theory and mechanisms of hemostasis.

CLS 235 Clinical Chemistry**4 Credits Pre-requisite:**

Principles of instrumentation and the theory and application of the biochemical tests performed in the clinical laboratory. The student will receive instruction in the basic techniques required for performing routine manual determinations.

CLS 240 Immunohematology (Hybrid)**4 Credits Pre-requisite:**

Lecture and laboratory. Fundamental principles of immunology are presented and applied to serology and blood banking. Donor selection, blood collection and processing, blood components and compatibility testing. Preparation and administration of blood and genetics of blood inheritance.

CLS 245 Clinical Microbiology**4 Credits Pre-requisite:**

The morphology, culture characteristics and identification of bacteria pathogenic to man and their role in infectious disease are discussed, as well as antibiotics susceptibility testing and rapid identification systems.

CLS 246 Parasitology, Virology, Mycology

3 Credits Pre-requisite: CLS 201

The study is presented with the theories, techniques, and methods used in basic parasitology, virology, and mycology. Emphasis is placed on special bacteria, identification, life cycles, culture growth, and pathological states of infection and infestation. Upon completion, students should be able to identify certain parasites, demonstrate various staining and culture procedures, and discuss the correlation of certain microorganisms to pathological conditions.

CLS 254 Clinical Internship

12 credits Pre-requisite: Must have completed all General Education and Program Core classes with a GPA of 2.0 or better.

Supervised experience in the hematology/coagulation, chemistry, microbiology, urinalysis, phlebotomy, parasitology and blood banking departments of the affiliated clinical laboratory. The student will have an opportunity to intern in one of four affiliated laboratories dependent upon their staffing situation. Students will be evaluated by the clinical liaison at each site. Students are required to complete 520-540 hours of internship.

ESSENTIAL FUNCTIONS

The following core essential functions are provided to assist each student in determining whether he or she can perform in a Medical Technician Program. Each of these essentials is reflected in course objectives and provides an objective measure for students and advisors to make informed decisions regarding whether a student is qualified to meet the requirements of the program.

If a student believes that he or she cannot meet one or more of the essentials without accommodations or modifications, the Medical Technician Program Director will determine, on an individual basis along with the Student Services Representative whether or not the necessary accommodation or modification can be made reasonable. Students can also be referred to the Vocational Rehab Program for additional assistance.

1. Critical thinking ability sufficient for clinical judgment.
2. Interpersonal abilities sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds
3. Communication abilities sufficient for interaction with others in verbal and written form
4. Physical abilities sufficient to move from room to room and maneuver in small spaces

5. Gross and fine motor abilities sufficient to provide safe and effective care for patients
6. Auditory abilities sufficient to monitor and assess health needs.
7. Visual ability sufficient for observation and assessment necessary in a Phlebotomy Program. Phlebotomy students must be able to distinguish colors
8. Must be able to stand and bend for extended time.

CLINICAL ROTATION SITES

The Medical Laboratory Technician students are required to take the Course CLS 254 Clinical Internship. This class consists of sixteen weeks of training in a clinical laboratory that is an Affiliate of Turtle Mountain Community College.

During this training period the students put into practice the policies, procedures and techniques they have learned from the Medical Laboratory Technician Program Curriculum and performing hands-on procedures in the TMCC training Laboratory. At this time the students interact with laboratory personnel, medical providers, nurses, and most importantly the patient. Medical laboratory professionals do not teach basic procedures or theory. The student must demonstrate this ability prior to participating in the Clinical Internship, through satisfactory completion of all classroom competencies and laboratory check-offs. If a student has not satisfactorily completed course work and demonstrated the ability to perform required procedures, he or she will not be allowed to go on to a clinical assignment. The clinical instructor(s) and Program Director must be sure that all students will be safe practitioners at the level expected for students in the final phase of the educational program.

While at the Clinical Rotation Affiliate site the students are directed to comply with the policies and procedures of the Affiliate, including those governing the use and disclosure of individually identifiable health information under federal law, specifically 45CFR parts 160 and 164. Solely for the purpose of defining the student's role in relation to the use and disclosure of the Affiliates protected health information, the trainees are defined as members of the Affiliate's workforce, as that term is defined by the Affiliate when engaged in activities pursuant to the agreement with the Affiliate. Nevertheless, the students are not and shall not be considered to be employees of the Affiliate.

Service Work Policy

Students shall not, at any time, take the responsibility of or replace qualified staff (service work). Students will not be excused from scheduled MLT assignments, laboratory exercises, clinical experiences, exams or practical in order to perform service work.

Students cannot be compelled to provide service work. Students may, after demonstrating proficiency, with qualified supervision, be permitted to perform procedures. This will be determined and arranged by the clinical affiliate. It is strictly against College policy for a student to receive pay for hours spent in a clinical, learning experience.

Students are required to complete competency evaluation while in the Clinical Rotation. The professional performance standards are monitored throughout the sixteen week rotation noncompliance with these standards can result in removal from the program. Regular attendance and consistent study habits are essential to success in college and is expected of all TMCC students. It is the student's responsibility to take a serious and active role in their education during clinical rotations. Students are expected to actively participate in clinical practicum on assigned days at assigned times. If the student is ill or has an emergency that prevents him or her from being at the clinical site, the student must notify both the clinical office **AND** the MLT Program Director. A student must have the required clinical hours to graduate from the program. Absences will mean making up these hours at the end of the semester at a time arranged with both the clinical site supervisor/instructor and Program Director/Director/Chair. The program reserves the right to remove students from clinical sites and request withdrawal of any student(s) for excessive or unexcused absences from Clinical Rotation.

Clinical Rotation Affiliate sites for the Medical Laboratory Program are currently as follows:

1. Quentin N. Burdick Memorial Health Care Facility Belcourt, North Dakota.
2. Presentation Medical Center Rolla, North Dakota
3. Heart of America Medical Center Rugby, North Dakota
4. Towner County Medical Center Cando, North Dakota

If a student cannot be placed in a Clinical site due to training slots being filled they will be given first priority in the next rotation cycle, or when a slot becomes available. Students will be selected based on academic achievement.

Student requests for a clinical rotation site are taken into consideration. Depending on the number of students a site can accept. Student requests for assignment to another Affiliate due to conditions other than academic performance will be reviewed by the Program Director.

HEALTH AND SAFETY

The Turtle Mountain Community College does not have a Medical Services Office for students. We do have First Aid Stations that contain basic first aid materials, some medications. They are placed in several locations throughout the college. Students essentially are responsible for their own health needs. Should a student become ill; staff are trained to call 911 and all are trained in basic life support.

In their admission packets; Medical Laboratory Technician students are required to provide proof of rubella titer, tetanus immunizations, negative Tuberculin test or negative chest x- ray. Proof of immunity against measles, mumps and rubella if born after Jan 1, 1957

It is required that the Medical Laboratory Technician students complete 3 doses of the Hepatitis B vaccine before entering rotation or sign a waiver of refusal.

The MLT students receive training in General Laboratory safety, Chemical Safety, Blood-borne pathogens, Electrical, Fire, Radiation, Ergonomics, and needle stick injury training during their CLS 103 Introduction to MLT class the first semester. Students are required to read the policies and procedures for all Laboratory experiments and exercises before actual instruction begins. Listed below are MLT Safety policies that are addressed and reviewed in all MLT courses.

These policies include:

- Contagious Diseases
- Student Guidelines for Bloodborne Pathogen Exposure
- Exposure Classification for Bloodborne Pathogens
- Exposure Classification for Hazardous Chemicals
- Health Science Exposure Chart
- Latex Allergy Policy

The College has a Critical Alert system, known as ALERT NOW that is available to all students, faculty and staff. Each year a student, faculty or staff member can go on-line and list their phone numbers (home or cell). The system is designed so that if there is a critical emergency at any one of the campuses [such as medical

emergencies severe enough to interrupt classes, weather emergencies or other emergency situations that would interrupt or cancel classes], anyone registered on the system will receive a phone call notifying them about the emergency and giving further instructions if classes are cancelled or a campus is closed.

While on rotation students are considered to be eligible for the same emergency health care as employees of the Affiliate site. All the clinical rotation Affiliates comply with the Emtela laws.

LABORATORY SAFETY MANUAL

SECTION I:

GENERAL SAFETY REQUIREMENTS

Safety in the laboratory requires every student's participation and cooperation. Noncompliance with safety precautions not only endangers the individual, but also compromises the health and safety of fellow students.

I. Student Responsibilities - Each student's responsibilities include:

- Complying with all safety policies and procedures;
- Maintaining awareness of the risks associated with assigned duties;
- Taking all necessary and appropriate safety precautions relevant to performance of duties;
- Becoming familiar with emergency procedures prior to accidental spills, overt personal exposures, fire
- Reporting unsafe conditions or practices to the Instructor;
- Reporting all incidents resulting in injury or exposure to hazardous agents to the Instructor.

The following rules and procedures apply to Turtle Mountain Clinical Training Laboratory

A. Personal

1. Hand washing- is the most important single precaution to prevent the spread of infections. Hands should be washed with soap and water, if visibility soiled, or waterless hand cleaner after: completing a task removing gloves immediately upon accidental contact with contaminated materials. Protective hand cream may be applied in the laboratory in the designated hand washing area.

B. Dress Code

1. The use of a long sleeved laboratory coat (buttoned closed) or a back closed gown is required when working with patient specimens.
 - a. Clothing worn by laboratory students/Instructors should be clean, neat and in good repair.
 - b. Clothing worn by laboratory students/instructors should provide protection to the skin in the event of a chemical splash or spill. OSHA laboratory standards (29CFR1910.1450 App. A) state that "Personnel (Instructors/students) should not wear loose (e.g. saris, dangling neckties, and over large or ragged laboratory coats), skimpy (e.g. shorts, strapless, cropped or halter tops) or torn clothing... Short trousers or miniskirts are inappropriate laboratory attire because laboratory coats open in the front when a person sits thereby exposing the legs above the knees to potential spills.
2. Personal Protective Equipment (PPE) such as fluid resistant gowns, gloves, goggles, face masks, face shields should be available and are required when there is significant probability that potentially hazardous substances may be splashed on the worker.
3. Shoes should be fluid impermeable material, leather or synthetic, and should cover the entire foot. Shoes with open toes are not unacceptable. Because cloth shoes will absorb chemicals or infectious fluids, they are not recommended. No ball caps.

C. Specific precautions when working in the laboratory:

1. Food and beverages must not be stored in refrigerators, freezers, or other areas where biological materials are present. The laboratory area will

designate those places where food and beverages may be stored, and identify them with appropriate signs

2. Eating, drinking, or chewing gum are not permitted in laboratories where biological materials are handled and work is performed. The laboratory shall designate areas where eating, and drinking are permitted.
3. Application of cosmetics and handling of contact lens will follow the guidelines for eating and drinking.
4. Long hair must be tied back when working in a clinical laboratory and while on patient floors.
5. Always use protective equipment that is provided for working with hazardous materials. Be familiar with the location and operation of eye washers, the location of fire extinguishers and other safety equipment.
6. Mouth pipetting is prohibited.
7. Laboratory personnel will assure that only visitors or maintenance personnel who have been advised of the potential biohazards and have been warned to avoid touching any working surfaces will be allowed through the laboratory.
8. Smoking. The Turtle Mountain Allied Health Building is smoke-free. There are no designated smoking areas within the building.
9. Students are offered appropriate immunizations or test for agents handled in laboratory (ex. TB skin test annually, Hepatitis B vaccine)
10. NO CELL PHONES!!

D. Disposal of biological materials and expendable supplies

1. Unless there is evidence of contamination with blood, urine may be disposed through the sewage system. Use caution to prevent splatter. The empty container must be disposed in red bag lined trash containers or may be autoclaved.
2. Those specimens contaminated with blood should be disposed of in red biohazard bags or placed in buckets lined with biohazard bags to be incinerated.

3. Other body fluid, solid, and semi-solid waste including laboratory supplies (e.g. microbiological cultures) and urine should be placed in containers or buckets lined with biohazard bags, and sent to your designated area to be incinerated prior to disposal. The fill level must be below the rim of the container.
4. All specimens received in the designated area must be incinerated prior to disposal.
5. Specimen transport bags bearing the biohazard sign and gloves should be discarded in red bag trash.
6. Trash and paper, in the laboratory is also to be placed in biohazard bags.
7. Only Red biohazard and autoclave bags are to be used in the laboratory areas.

E. Safe handling of Needles

Most needle sticks can be prevented by "safety awareness" on the part of the user. The Needle sticks can be prevented if the approved containers are used properly and with caution.

1. Recommendations for safe handling of needles and other sharps
 - a. Needles containing safety devices, when available, are always to be applied after use (ex. butterfly, protective needles and syringes).
 - b. Needles and other sharps are never to be discarded directly into the trash.
 - c. Needles and other sharps must not be unattended (i.e. on furniture, trays, equipment or in beds and linen).
 - d. Needles are not to be clipped or bent. Destructlips and similar devices are not to be used.
 - e. Needles are never to be recapped by hand.
 - f. Employees must never reach into any container used for disposal of contaminated sharps.

F. Sharps Disposal

Items considered sharps are: needles, syringes, slides, glass pipettes, glass capillary tubes, scalpels and knives and must be discarded in certified sharps containers.

SECTION II:

STANDARD PRECAUTIONS

PRECAUTIONS

Standard Precautions expands the coverage of Universal Precautions by recognizing that any body fluid may contain contagious microorganisms

A. Nature of the risks

1. **HEPATITIS:** Most cases of laboratory associated hepatitis are caused by one of the following agents: Viral hepatitis, Hepatitis B virus (HBV) and Hepatitis C which accounts for most of the transfusion-associated Hepatitis cases seen in the USA. Laboratory acquired Hepatitis is now recognized as a major occupational hazard to laboratory workers handling biological materials.
2. **AIDS:** The etiology of Acquired Immunodeficiency Syndrome (AIDS) is a retrovirus called Human Immunodeficiency Virus (HIV). Transmission occurs from infected persons through direct intimate contact involving mucosal surfaces, such as sexual contact or through parenteral spread such as shared needles and syringes. Airborne transmission and spread through casual contact has not been documented.

B. General safety requirements

All precautions listed under Section I of this manual will apply to standard precautions.

C. Standard Precautions Principle

Since medical history and examination cannot reliably identify all patients with blood-borne pathogens, all body fluids are treated as if known to be infectious for HIV, HBV, and other blood borne pathogens. Standard Precautions are designed to reduce the risk of transmission of microorganisms from both recognized and unrecognized sources of infection in the hospital. Standard precautions apply to blood and body fluids, secretions, excretions and all tissues. Standard precautions do not apply to sweat.

D. Exposure categories

1. Category I: Tasks that involve exposure to blood, body fluids, or tissues. All procedures or other job-related tasks that involve an inherent potential for mucous membrane or skin contact with blood, body fluids, or tissues, or a potential for spills or splashes of them, are Category I tasks. Use of appropriate protective measures should be required for every employee engaged in Category I tasks.

2. Category II: Tasks that involve no exposure to blood, body fluids, or tissues, but employment may require performing unplanned Category I tasks. The normal work routine involves no exposure to blood, body fluids, or tissues, but exposure or potential exposure may be required as a condition of employment.

E. Standard precautions barrier protection.

Standard precautions include general safety precautions plus:

1. Gloves will be worn when

- a. Handling blood, tissues, body fluids or items contaminated with blood or body fluids including specimen containers, laboratory instruments, counter tops, etc.

b. Performing venipuncture, changing gloves and washing hands between each patient.

c. Student's hands are abraded or active dermatitis is present.

2. Gloves will be replaced as soon as possible when contaminated, before touching non-contaminated items or surfaces.

3. Always wash hands with soap and water, for at least 15 seconds, following the removal of gloves or use an alcohol based hand rub solution.

4. To protect the mucus membranes, masks and eye protection, face shields splashguards or safety cabinets must be used if splashing or spraying of blood or body fluid is anticipated.

5. All lab coats, gloves, and other personal protective equipment must be removed prior to leaving the work area.

6. Soiled gloves, masks and other disposable personal protective equipment will be discarded into red bag-lined receptacles after use.

LABORATORY SAFETY DOCUMENTATION FORM

Student _____ **Date** _____

I have received training in the following areas of Laboratory Safety as lecture material, videos and handouts in Phlebotomy CLS 103

- 1. Standard Precautions**
 - a. Airborne precautions**
 - b. Droplet precautions**
 - c. Contact precautions**
- 2. Blood Borne pathogens**
- 3. OSHA laws**
- 4. Biohazard safety**
 - a. I can recognize the biohazard symbol**
- 5. Electrical Safety (I know where the closest electrical box is located)**
- 6. Fire Safety (I know location of the closest fire alarm is as well as the fire Extinguisher)**
 - a. I know the meaning of RACE**
 - b. I know the meaning of PASS**
 - c. I can name the types of fire Extinguishers and their purpose.**
- 7. Chemical Safety**
- 8. OSHA Hazard Communication Standard**
- 9. Department of Transportation Labeling System**

Signature _____

GENERAL INFORMATION

Please refer to the TMCC WEB SITE for the following information:

- Under Current Student you will find the Student Handbook
- Under Community Resources you will find HEART project.
- TMCC Referral Guide and Resource Manual

These sites will give you additional valuable information.

Teach Out Plan

Orderly Academic program shutdown or suspension

In the event that the administration of Turtle Mountain Community College should decide to discontinue the MLT program, every effort will be made to follow the following teach out plan:

1. No new students will be admitted to the program
2. All students currently participating in the program will be allowed to finish
3. Only courses needed for the completing students will be offered
4. Students may decide to transfer to another MLT program. Acceptance of any coursework completed at TMCC will be up to the accepting institution.
5. Students may choose to leave the MLT program.
Example: Administration decides in February 2017 to close the MLT program.
6. Second year students are participating in clinical internships at this time. Students participating at clinical sites will complete their clinical work, seminar course and be allowed to graduate.
7. First year students are in second semester courses at this point. Students will be able to finish the courses in progress. They will be offered courses for fall of 2017 according to the curriculum guide.
8. Only second year courses will be offered.
9. No first year courses will be offered fall of 2017.
10. Clinical internships will also be arranged for spring of 2018 and the students allowed to complete their degree and graduate.
11. Students who do not pass classes during this second semester spring of 2017 will need to leave the program as no three year option will be offered.