



STUDENT HANDBOOK

2023-2024

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A Message to the Students

Welcome to the Texas Southmost College (TSC), Medical Laboratory Technology (MLT) Program.

This handbook has been compiled to help you with the policies utilized by this program and the available student services.

The Medical Laboratory Technology Program Student Handbook pertains to students that have been admitted into the program and are a supplement to the TSC Student Handbook. Through the spirit of cooperation and communication, students and faculty members share a common goal of learning. In this profession, competence is developed through diligence, determination, and patience in the clinical practicum environment and the classroom.

The degree plan for Medical Laboratory Technology has been designed to provide the student with a well-rounded curriculum that incorporates general laboratory and prepares the student academically to continue their education.

Please remember that you, the student, are the most important asset of this program. Your suggestions are welcomed, appreciated, and may be submitted at any time to the Program Faculty or Program Director.

Non-Discrimination Statement

The Texas Southmost College, Medical Laboratory Technology Program, is non-discriminatory in regard to race, creed, color, sex, age, handicap, and national origin.

No otherwise qualified handicapped individual in the United States as defined shall, solely by reason of his handicap, be excluded from participating in, be denied benefits of, or be subject to discrimination under any program or activity receiving federal assistance.

Vision, Mission, and Values of Texas Southmost College

Vision

Texas Southmost College will be a premier community college dedicated to student success.

Mission

Transforming our communities through innovative learning opportunities

Values

- Integrity by respecting the ideals of social responsibility, academic honesty, trustworthiness, personal ethics, and the courage to act.
- Access by reaching out to our diverse communities, expanding linkages with industry, and strengthening our partnerships with area ISDs and universities to create accessible and affordable educational pathways for our students, faculty, and staff.
- Service by encouraging and recognizing collaboration, teamwork, compassion, and kindness to others.
- Excellence by providing relevant, high-quality educational experiences and a supportive learning environment to advance knowledge, to promote understanding and to achieve the academic and workforce potential of students, faculty, and staff.
- Innovation by embracing emerging technologies to enhance and expand teaching, learning, and service opportunities for students, faculty, and staff.
- Success by empowering, engaging, and educating students, faculty, and staff to achieve their personal and professional aspirations for graduation, academic transfer, employment, and other educational goals

Essential Functions of the Program

Students in the program must accomplish the essential functions established by the Medical Laboratory Technology program. Essential functions include requirements that able students to engage in educational and training activities so that they will not be endangered, nor will they endanger other students, hospital staff, patients, or the public. To ensure students' essential function, a physical exam is required.

Vision

The student must be able to read charts and graphs, read instrument scales, discriminate colors,

read microscopic materials and record results.

Clear Communication

The student must be able to communicate effectively and sensitively in order to assess non-verbal communication and be able to adequately transmit information to the patient and to all members of the healthcare team.

Fine Motor Function

The student must have all the skills necessary to safely and accurately perform all the diagnostic procedures, manipulate tools, instruments, and equipment. The student must be able to perform phlebotomy safely and accurately.

Psychological Stability

The student must have the emotional health required for full utilization of his or her intellectual abilities. Must be able to recognize emergency situations and take appropriate action.

The Mission of the Program

Consistent with the mission of Texas Southmost College, the faculty of the Medical Laboratory Technology Program is committed to serving the educational needs of the citizens of the Lower Rio Grande Valley. This mission will be fulfilled by providing quality instruction, preparing the graduate to be successful on the national certification examination, and preparing the graduate with employable skills as an entry-level medical laboratory technician.

Program Goals

GOAL 1. The MLT program will graduate 70 percent of the students within 21 months.

GOAL 2. Upon completing the program, a minimum of 70 percent of the graduates will be employed within one year.

GOAL 3. Upon completing the program, at least 75 percent of the graduates will be successful on the national certification examination.

GOAL 4. Upon completing the program, at least 90 percent of the employers will be satisfied with graduates' comprehensive entry-level skills. (Cognitive, Psychomotor, and Affective Domains)

MLT Program Description

Medical Laboratory Technicians enjoy the prestige, excellent pay, and security of working in the exciting healthcare world. Graduates of the program can expect a very favorable job market and generous benefits packages associated with medical professional employment. Medical

Laboratory Technicians are employed in hospitals, clinics, and doctor's offices. They can also find jobs in medical sales or, with additional training, in education.

The Medical Laboratory Technology program curriculum consists of basic science and mathematics course, on-campus medical laboratory technology lectures and laboratory courses, elective courses, and hospital-based clinical practice. Upon satisfactory completion of all requirements, the student can receive an Associate Degree in Applied Science from TSC. Graduates can take the Medical Laboratory Technician certification examination offered by the Board of Registry of the American Society of Clinical Pathologists (MLT ASCP) and the American Medical Technologist (MLT, AMT). The Medical Laboratory Technology Program has a 95% employability rate.

Admission Criteria for Applicants

The enclosed information will explain the requirements for the application process.

- Admission to TSC Contact the enrollment office for college admission requirements (956) 295-3600.
- Submission of a complete application for admission to the MLT Program located at office H3A

The admission application deadline is the 2nd Friday in July at noon.

- Submission of two letters of recommendation.
- Documentation of any certification currently held.
- Unofficial TSC transcript showing all accepted transferred courses
- Computer

Essential Functions required

- Vision accuracy- The student must be able to read charts and graphs, read instrument scales, discriminate colors, read microscopic materials, and record results.
- Clear communication- the student must be able to communicate effectively and sensitively to assess non-verbal communication and be able to adequately transmit information to the patient and members of the healthcare team.
- Fine Motor Function- The student must have all the skills necessary to safely and accurately perform all the diagnostic procedures, manipulate tools, instruments, and equipment. The student must be able to perform phlebotomy safely and accurately.
- Psychological Stability- The student must have the emotional health required for full utilization of his or her intellectual abilities. Must be able to recognize emergency situations and take appropriate action.

Prerequisite Courses

- BIOL 2301 Anatomy & Physiology I
- MATH 1342* Elementary Statistical Methods
- ENGL 1301 Composition
- Note: *MATH 1314 College Algebra or higher accepted

Selection Criteria: 126 Points Possible

Applicant pool ranking will be based on points received for prerequisite courses grades,

chemistry course, healthcare experience as volunteer or work, and academic accomplishments (See the list below):

1. Points for BIOL 2301, Math 1342 or higher, and ENGL 1301: A = 8, B = 6, C = 4
2. Points for CHEM 1305 or CHEM 1311: A =12, B=10, C = 8
3. Documentation for healthcare work experience (minimum six months): 10 points
4. Completion of Bachelor in Science related: 50 points
5. Completion of an Associate in Science related: 20 points
6. Transcripts: 10 points

Applicants will be notified by e-mail whether they have been or have not been selected into the program.

Requirements after acceptance into the TSC MLT program are:

1. Uniform
2. Mandatory attendance to the MLT Program orientation at the scheduled day and time. (You will receive this information on your acceptance letter).
3. Students are admitted to the TSC MLT program on provisional status pending completing the criminal background check, physical exam, CPR certification, drug screen, and up-to-date immunizations.

Admission is non-discriminatory regarding race, creed, sex, age, handicap, or national origin. For more information, don't hesitate to get in touch with me at consuelo.villalon@tsc.edu. You can also access information at www.tsc.edu/mlt

Sincerely,

Consuelo Villalon, Ph.D., M.P.H., M.T (AMT)
MLT Program Director

Effective September 1, 2017, HB 1508, 85th Leg., R.S. (2017), amended Chapter 53 of the Texas Occupations Code to add Subchapter E relating to notice to applicants to and enrollees in certain educational programs regarding the consequences of a criminal conviction on eligibility for an occupational license.

According to Chapter 53, Subchapter E, of the Texas Occupations Code, please be advised that Texas Southmost College offers programs that lead to an occupational license as defined under Texas Occupations Code 58.001. Licensing authorities may have guidelines concerning prior criminal convictions that would make an individual ineligible for issuance of a given license. If you are enrolled in a program that may prepare an individual for an occupational license and/or if you later decide to change to a program that prepares you for an occupational license as defined under Texas Occupations Code 58.001, following state law, please be advised of the following:

1. An individual who has been convicted of an offense may be ineligible for issuance of an occupational license upon completion of the educational program;
2. Each licensing authority that may issue an occupational license to an individual who completes an educational program must establish guidelines that state the reasons a particular crime is considered to relate to a specific license and any other criterion that affects the

decisions of the licensing authority.

3. Local or county licensing authorities may issue additional guidelines related to criminal history. Applicants should contact their respective local or county licensing authority for more details.

4. A person may request a criminal history evaluation letter regarding the personal eligibility for a license issued by a licensing authority under Texas Occupations Code 53.102.

Note that the provisions of Chapter 53 of the Texas Occupations Code relating to the consequences of criminal conviction do not apply to licenses granted by the Supreme Court of Texas, law enforcement officers (Texas Occupations Code Chapter 1701), emergency medical services personnel (Texas Health and Safety Code Chapter 773), or persons licensed by the Texas Medical Board, the Texas State Board of Pharmacy, the State Board of Dental Examiners, or the State Board of Veterinary Medical Examiners that have been convicted of a felony under Chapter 481 or 483 or Section 485.003 of the Texas Health and Safety Code. If you are seeking one of these licenses, please be aware that other provisions of the law may be applicable relating to the consequences of a criminal conviction.

All applicants to and enrollees of Texas Southmost College are encouraged to review all applicable eligibility requirements related to the respective occupational license. Questions related to eligibility requirements should be directed to the applicable licensing authority.

A.A.S. - Medical Laboratory Technology Pre-Program Courses

BIOL 2301 Anatomy and Physiology I (3 credit hours)

General biological principles; cellular biology; emphasis on human integumentary, skeletal, muscular, and nervous systems and related topics.

Prerequisites or concurrent enrollment: BIOL 2101

MATH 1342 Elementary Statistical Methods (3 credit hours)

This course covers the collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Prerequisite: TSI met in math or "C" or better in MATH 0320, MATH 0322, or "Passing" in MATH 0022. Lec 3, Cr 3

ENGL 1301 Composition I (3 credit hours)

This course is a continuation of ENGL 1301 and emphasizes analytical writing in response to literature. A research essay is required. Prerequisite: Lec 3, Cr 3

Institutional Accreditation

The Texas Southmost College (TSC) is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools. TSC course offerings are approved by Texas Higher Education Coordinating Board, Texas College, and University System, and Texas Education Agency.

Program Accreditation

The TSC MLT Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

5600 N. River Rd. Suite 720
Rosemont, IL 60018-5119
Phone: 773- 714- 8880
Fax: 773- 714- 8886
Website: <http://www.naacls.org>

MLT Program Non-Compliance Policy

The Texas Southmost College Medical Laboratory Technology Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). This agency set the standards for the nation's colleges and universities. This program will promote quality and safety for all patients, quality education, ongoing assessment of curricula, student services, student learning outcomes, and qualify its graduates for licensure.

If for some reason, you feel that the program is not providing for academic excellence, health care quality, or patient safety, you may follow the guidelines below:

Guidelines:

1. The student shall provide in writing their complaints to the program director
 - a. State areas of non-compliance
 - b. Date and sign the complaint document

2. The program director shall respond in writing within seven working days to the allegation or complaints

3. If a student is not satisfied, the complaint shall be forwarded to the Dean of the Health Professions Division.

4. Number 3 is the final step before submitting a complaint to NAACLS at

<http://www.naacls.org/>

Faculty

Name: Consuelo Villalon, Ph.D, MPH,
MT (AMT)

Program Area: Medical Laboratory
Technology Program, Director

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Name: Maria Del Carmen Rodriguez, MHA,
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Program Area: Medical Laboratory Technology
Program

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Certification Requirements

Upon satisfactory completion of all requirements, the student can receive an Associate Degree in Applied Science from TSC. The issuing of the degree IS NOT contingent upon the student passing any external certification or licensure. Graduates can take the Medical Laboratory Technology examination offered by the Board of Registry of the American Society of Clinical Pathologists (MLT ASCP) and the American Medical Technologist (MLT, AMT).

Student Records

The student transcript is maintained permanently by the Office of Registrar. In addition, the MLT program supports two sets of records on the Medical Laboratory Technology student in the program director's office. One is a personal file **that** contains admission documents, applications, transcripts, and counseling or advising documents. Another separate file contains lecture and clinical practicum information, such as the record of examinations completed, clinical practicum attendance, and other lecture and clinical practicum education data. These documents are secured and may be reviewed by the student planning with the program director.

Student Work Policy

As in all the Allied health programs at TSC, students working full-time while enrolled in a program is challenging and not recommended since work schedules generally conflict with class and/or clinical practicum rotations. The program's policy is that students are not required to perform service work at any clinical affiliate after attaining entry-level competency. Students in this program will not be substituted for regular staff even though they may be competent in a certain aspect of the laboratory. Suppose a student be employed in any laboratory facility that is an affiliate of the program. In that case, they may do so only when it does not involve or conflict with program activities. Additionally, should a student be employed by a facility where clinical practicum rotation is usually conducted, they may not use "employer time" to substitute for program clinical practicum requirements.

Behavioral Conduct

TSC Medical Laboratory Technology students will be expected to conduct themselves in such a manner as to reflect favorably upon themselves and the program. Every effort is taken to provide students with an academic environment conducive to academic endeavors, social growth, and individual self-discipline. TSC assumes that students eligible to perform on the community college level are familiar with the ordinary rules governing proper conduct. They will observe these rules as a matter of training and habit.

Professional Ethics/Confidentiality

Student Code of Ethics

As a student in the Medical Laboratory Technology program, I hereby pledge to:

1. Conduct myself with the highest degree of honesty and integrity and never betray the trust placed in me by my instructors.
2. Accept responsibility for my own work and results.
3. Conduct myself professionally both on and off-campus, and thus help reflect a positive image for my school.
4. Assume a professional manner in attire and conduct.
5. Practice good safety habits in the laboratory and when handling biologically hazardous materials.
6. Safeguard the dignity and privacy of patients and confidentiality of patient information. Students will meet the requirements for the Health Insurance Portability and Accountability Act (HIPAA). The student will not EVER bring ANY protected health information. Suppose the student needs to provide information to the instructor [off clinical site] about a patient as part of my training. In that case, I will give only de-identified information which would not be subject to HIPAA.”
7. Treat all body fluids and specimens with great respect; always remember that they are collected from fellow human beings to help improve their quality of life.
8. Establish and maintain a rapport with other health professionals.
9. Establish the confidence of the patient through kindness and empathy.
10. Hold colleagues and profession in high esteem.
11. Avoid plagiarism and follow copyright guidelines.

Health Data Form

All incoming students in Medical Laboratory Technology Program must be deemed in good health to perform the essential functions. A physical examination, up-to-date immunization, and drug screen are required upon enrollment. Students should contact the program director for

information on health requirements.

Liability Insurance

All students in the Medical Laboratory Technology Program are required to have professional liability insurance. This insurance is provided on a group basis. The cost for the professional liability insurance is included in the fees paid during Semester in which a clinical practicum course is required.

Grievance Procedure

The student grievance procedure at TSC intends to assure the aggrieved student of due process in the disposition of the grievance or complaint. While the procedure will not guarantee the student that the result will be satisfactory, the community college intends to provide good options for resolving the matter.

The filing a grievance procedure can be found in the official TSC student's handbook.

Grievances -Grade Appeals

Course grade grievances must be initiated by contacting the instructor or individual the grievance arose within 30 days of the grade report. An effort to resolve the matter informally should be made. If the student is not satisfied with the decision, the student may appeal in writing within 21 days to the director of the program or and chair of the department from which the grade was issued. Disputes not satisfactorily resolved within 21 days may be appealed in writing to the school of Health Professions Division Dean, who will render the final decision.

For more information, please refer to the TSC student's handbook.

Grievances -Other than Grade Appeals

In attempting to resolve any student grievance, it is the obligation of the student first to make a serious effort to resolve the matter with the individual with whom the grievance originated.

Grievances involving issues other than grades are appealed to the Program Director, if appropriate to the Health Professions Division Dean, then to the Vice President. Appeals must be submitted in writing. For more information, please refer to the TSC student's handbook.

Students Complaints

The Medical Laboratory Technology Program is exercising open communication with faculty and students. If problems arise, students have the freedom to communicate with the Program Director. If faculty are involved, the program director will meet with both parties to find the best resolution to the complaint.

MLT Program Probation Policy

Probation is a trial period in which the student must improve or be withdrawn from the program.

At the discretion of the Medical Laboratory Technology Program Director, a student may be placed on probation in the Medical Laboratory Technology Program for any of the following reasons.

1. Non in compliance with the TSC Satisfactory Program policy (SAP policy)
2. Unsatisfactory performance in lecture and laboratory procedures (scores below 75)
3. Unsatisfactory lecture and laboratory attendance and punctuality
4. Unsatisfactory performance in the clinical practicum
5. Unsatisfactory clinical practicum attendance and punctuality
6. The inability to maintain physical and mental health necessary to function in the program

The time and terms of probation are to be determined by the Health Professions Division Dean and the Medical Laboratory Technology Program Director, and Faculty that follow the TSC probation policies and departmental policies.

TSC Academic Probation and Dismissal

Students who begin any semester term in Good Academic Standing but fail to maintain a cumulative GPA of 2.0 or higher are placed on Academic Probation. Notification of probationary status is communicated electronically through students' TSC email addresses. Students may re-enroll for one (1) semester term after meeting with an Advising.

Student status is evaluated after each semester term. Students must earn a semester term GPA of 2.0 or higher to remain enrolled while on Academic Probation.

Upon completion of the above requirements, any appropriate Academic Hold will be cleared on student records.

Academic Probation status is removed when students earn both cumulative 2.0 GPA

Continued Academic Probation

After the first (1) semester of Academic Probation Status, students may re-enroll at Texas Southmost College on a Continued Academic Probation status after meeting with an Advisor.

Student status is evaluated after each completed semester/session. Students must meet minimum academic (2.0 GPA) standards for each subsequent semester term until the student has a

cumulative GPA of 2.0. The Continued Academic Probation status is removed when students earn both a cumulative 2.0 GPA.

Academic Dismissal (First or Second Academic Dismissal)

If students on Academic Probation or Continued Academic Probation fail to earn a semester term GPA of 2.0 or fail to earn a cumulative GPA of 2.0 in the next semester term following the probation status, they will be placed on Academic Dismissal. Students placed on Academic Dismissal will receive an email notification to their TSC email account.

After remaining out for one (1) semester term for each of the First or Second Academic Dismissals, students may re-enter on Academic Probation only after receiving advisement.

Students re-admitted must continually earn a semester term GPA of 2.0 or above until Good Standing is reached to remain enrolled.

Students who wish to remain in school may petition for an exception. Exceptions granted will be re-enrolled under the status of Continued Academic Probation.

Students may re-enroll in Good Standing if minimum academic standards have been met at another accredited college or university during the period of dismissal.

Students placed on Academic Dismissal for the third (3) time will not enroll for one (1) calendar year.

Students placed on Academic Dismissal or Academic Suspension at their previous institutions and seeking to transfer to Texas Southmost College must follow the policies outlined above.

Academic Dismissal (Third Academic Dismissal)

A student on Academic Dismissal for a third (3) time or more will not be permitted to enroll at Texas Southmost College for one (1) calendar year, after which a petition may be made for re-admission. The Admission and Records office can provide information and deadlines on the petition process. Academic Probation status is removed when students earn a cumulative 2.0 GPA.

MLT Student Classroom

Medical Laboratory Technology Program lectures and lab courses are taught at the ITEC Center. Specific times are published in the TSC course schedules.

Laboratory and Tutoring

Students may utilize the Medical Laboratory Technology laboratory to practice the laboratory procedures. A student can do this by scheduling time with the faculty or program director because unit use is ONLY allowed in the presence of a faculty member. Students can use the labs to study/ read their textbook but need to notify a faculty member. Students may request

tutoring services.

MLT Course Requirements

All first-year courses must be completed successfully before entering the more advanced course(s) the following year. Due to the structure and chronological order of these classes, if a student should be unsuccessful, he/she would be unable to continue in consecutive courses until the failed course is completed the following year. Under these circumstances, the student will be required to submit an additional application. Re-admission to a Medical Laboratory Technology course is not guaranteed but offered only on a space-available basis. It is expected that each student will successfully demonstrate competency in the classroom, laboratory, and clinical sites. Since this is a competency-based program, each instructor will give the student a course syllabus and objectives to be mastered. MLT courses will use the following scale:

Grading Conversion Table

Letter Grade	Percentage
A	92-100
B	82-91
C	75-81
D	60-74
F	Below 60

For any MLT course, a grade of at least a "C" must be earned. Any MLT course of a "D" or lower is not considered passing and must be repeated. A student will not be allowed to test out of a course.

MLT Course Description

CHEM 1305 Introduction to Chemistry I (3 credit hours)

A terminal course in chemistry for non-science majors or Technician students. Major topics covered are atomic and molecular structure, chemical bonding, the states of matter, solution calculations, and acid-base concepts; includes a brief introduction to organic chemistry and biochemistry. Concurrent enrollment. CHEM 1105. Lec. 3, Cr 3

OR

CHEM 1311 General Chemistry I (3 credit hours)

Study of atomic and molecular structure, chemical stoichiometry, chemical bonding, states of

matter, solutions and colloids, and acid-base concepts. Prerequisite: Credit for two years of high school algebra OR credit or registration for MATH 1314. Lec 3, Cr 3

MLAB 1201

Course Title: Introduction to Clinical Laboratory Science

Course Level: Introductory

Course Description: This course introduces medical laboratory science, structure, equipment, and philosophy. Prerequisite(s): BIOL 2301, CHEM 1305, MATH 1342, and ENGL 1301. Lec 1, Lab 3, Cr 2.

Learning Outcomes: The students will perform laboratory math, identify laboratory equipment, and describe quality control, safety, accreditation, certification, professionalism, and ethics.

MLAB 1311

Course Title: Urinalysis and Body Fluids

Course Level: Introductory

Course Description: This course is an introduction to the study of urine and body fluid analysis. Includes the anatomy and physiology of the kidney, physical, chemical and microscopic examination of urine, cerebrospinal fluid, and other body fluids as well as quality control, quality assurance and safety. Prerequisite(s): MLAB 1201, PLAB 1323, MLAB 1415, MLAB 1227, and PLAB 1166. Lec 2, Lab 4, Cr 3.

Learning Outcomes: The student will apply principles of safety, quality assurance and quality control; evaluate specimen acceptability; explain principles of each test included in a routine urinalysis; describe the composition, formation and function of selected body fluids; explain the anatomy and functions of the renal system; and evaluate and correlate laboratory results with patient conditions.

PLAB 1323

Course Title: Phlebotomy

Course Level: Introductory

Course Description: This course is based on the Skill development in the performance of a variety of blood collection methods using proper techniques and standard precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, patient identification, specimen labeling, quality assurance, specimen handling,

processing, accessioning, professionalism, ethics, and medical terminology. Prerequisite(s): BIOL 2301, CHEM 1305, MATH 1342, and ENGL 1301. Lec 2, Lab 4, Cr 3.

Learning Outcomes: The student will demonstrate infection control and safety practices; describe quality assurance as it relates to specimen collection; explain the role of specimen collection in the overall patient care system; identify collection equipment, various types of additives used special precautions necessary, and substances that can interfere in clinical analysis of blood constituents; demonstrate venipuncture and capillary puncture techniques on adults, children, and infants; and explain requisitioning, transport and processing.

PLAB 1166

Course Title: Clinical Phlebotomy

Course Level: Intermediate

Course Description: This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical 128, Cr 2.

Learning outcomes: As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

MLAB 1335

Course Title: Immunology/Serology

Course Level: Introductory

Course Description: This course is an introduction to the theory and application of basic immunology, including the immune response, principles of antigen-antibody reactions, and the principles of serological procedures as well as quality control, quality assurance, and safety. Prerequisite(s): MLAB 1201, PLAB 1323, MLAB 1415, MLAB 1227, and PLAB 1166. Lec 2, Lab 2, Cr 2.

Learning Outcomes: The student will apply principles of safety, quality assurance and quality control in Immunology/Serology; evaluate specimen acceptability; describe the principals involved in the immune response; identify the structure, function, and characteristics of immunoglobulin; explain the principles of and perform serological tests; and evaluate and correlate test results with associated diseases or conditions.

MLAB 2534

Course Title: Microbiology

Course Level: Advanced

Course Description: This course is an instruction in the theory, practical application, and pathogenesis of clinical microbiology, including collection, quality control, quality assurance, safety, setup, identification, susceptibility testing, and reporting results. Prerequisite(s): MLAB 1201, PLAB 1323, MLAB 1415, MLAB 1227, and PLAB 1166. Lec 3, Lab 6, Cr 5.

Learning Outcomes: The students will apply principles of safety, quality assurance and quality control in Clinical Microbiology; evaluate specimen acceptability; describe morphology and physiology of microbes; identify and classify microorganisms; demonstrate sterile technique; perform and interpret antimicrobial susceptibility testing; select additional procedures based on preliminary results; and correlate test results with patient conditions.

MLAB 1231

Course Title: Parasitology/Mycology

Course Level: Introductory

Course Description: This course is a study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures, quality control, quality assurance, and safety. Prerequisite(s): MLAB 1201, PLAB 1323, MLAB 1415, MLAB 1227, and PLAB 1166. Lec 1, Lab 3, Cr 2.

Learning Outcomes: The student will apply principles of safety, quality assurance, and quality control; evaluate specimen acceptability; describe basic morphology and physiology of parasites and fungi; classify parasites and fungi; perform appropriate laboratory techniques used in the processing of specimens and identification of parasites and fungi; and evaluate and correlate test results with patient conditions.

MLAB 1415

Course Title: Hematology

Course Level: Introductory

Course Description: This course covers the study of blood cells in normal and abnormal conditions. Instruction in the theory and practical application of hematology procedures, including quality control, quality assurance, safety, manual and/or automated methods as well as blood cell maturation sequences, and normal and abnormal morphology with associated diseases. Prerequisite(s): BIOL 2301, CHEM 1305, MATH 1342, and ENGL 1301. Lec 2, Lab 6, Cr 4.

Learning Outcomes: The student will apply principles of safety, quality assurance and quality control in Hematology; evaluate specimen acceptability; compare and contrast hematology values under normal and abnormal conditions; perform and explain principles and procedures of tests to include sources of error and clinical significance of results; and evaluate normal and abnormal cell morphology with associated diseases

MLAB 1227

Course Title: Coagulation
Course Level: Introductory

Course Description: This course is based in coagulation theory, procedures, and practical applications. This course includes quality control, quality assurance, safety and laboratory procedures which rely on commonly performed manual and/or semi-automated methods. Prerequisite(s): BIOL 2301, CHEM 1305, MATH 1342, and ENGL 1301. Lec 1, Lab 2, Cr 2.

Learning Outcomes: The student will apply principles of safety, quality assurance and quality control in coagulation; evaluate specimen acceptability; compare and contrast coagulation processes under normal and abnormal human conditions; perform basic laboratory coagulation analysis; and evaluate laboratory test results and correlate with patient conditions.

MLAB 1260, 1263, 2260, 2263

Course Title: Clinical - Clinical/Medical Laboratory Technician
Course Level: Advanced

Course Description: This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Learning Outcomes: The student as outlined in the learning plan will apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economical, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry.

MLAB 2401

Course Title: Clinical Chemistry
Course level: Intermediate

Course Description: This course is an introduction to the principles, procedures, physiological basis, and significance of testing performed in Clinical Chemistry. Includes quality control, reference values, and safety. Prerequisite(s): MLAB 2431 and MLAB 1260. Lec 2, Lab 6, Cr 4.

Learning Outcomes: The student will apply principles of safety, quality assurance and quality control in Clinical Chemistry; evaluate specimen acceptability for chemical analysis; compare and contrast human body chemistry levels under normal and abnormal conditions; explain and perform procedures found in a clinical chemistry laboratory; and evaluate laboratory test outcomes and correlate test results with patient conditions.

MLAB 2431

Course Title: Immunohematology
Course Level: Advanced

Course Description: This course covers the study of blood antigens and antibodies. It presents quality control, basic laboratory technique, and safety. Includes the principles, procedures and clinical significance of test results in genetics, blood group systems, pre-transfusion testing, adverse effects of transfusions, donor selection, and components, and hemolytic disease of the newborn.

Learning Outcomes: The student will apply principles of safety, quality assurance and quality control in Immunohematology; evaluate specimen acceptability; describe blood group genetics, characteristics of the blood group systems, and the principles of immunology as they relate to immunohematology; list the requirements for the donation of blood; and describe the preparation, storage, and use of blood components; evaluate laboratory test results; select additional procedures to be performed; correlate test results with patient conditions; and describe the principles of and perform routine blood bank tests.

MLAB 2132

Course Title: Seminar in Medical Laboratory Technology
Course Level: Advanced

Course Description: This course is designed to reinforce didactic information with laboratory methodologies and to allow exploration of advanced techniques in medical laboratory technology. Prerequisite(s): MLAB 2401 and MLAB 1263. Lec 1, Lab 1, Cr 1.

Learning Outcomes: The student will correlate the patient aspects of disease states; analyze critical data; and explain the integration between the various laboratory disciplines.

Estimated Cost for the Medical Laboratory Technology Program

	Resident (In District)	Resident (Out-District)	Non-Resident
First Semester (Fall)			
Tuition/Fees	\$1,482.00	\$2,000.00	\$2,582.00
Books and other fees	\$400.00	\$400.00	\$400.00
Uniforms/Shoes	\$200.00	\$200.00	\$200.00
Castle Branch	\$100.00	\$100.00	\$100.00
Total	\$2,182.00	\$2,700.00	\$3,282.00
Second Semester (Spring)			
Tuition/Fees	\$1,716.00	\$2,366.00	\$3,016.00
Books and other fees	\$200.00	\$200.00	\$200.00
Total	\$1,916.00	\$2,566.00	\$3,216.00
Third Semester (Summer III)			
Tuition/Fees	\$897.00	\$1,197.00	\$1,497.00
Books and other fees	\$200.00	\$200.00	\$200.00
Total	\$ 1,097.00	\$1,397.00	\$1,697.00
Fourth Semester (Fall)			
Tuition/Fees	\$1,365.00	\$1,865.00	\$2,365.00
Books and other fees	\$200.00	\$200.00	\$200.00
Total	\$1,565.00	\$2,065.00	\$2,565.00
Fifth Semester (Spring)			
Tuition/Fees	\$1,131.00	\$1,531.00	\$1,931.00
Books and other fees	\$200.00	\$200.00	\$200.00
Total	\$1,331.00	\$1,731.00	\$2,131.00
ESTIMATED TOTAL COST:	\$8,091.00	\$10,459.00	\$12,891.00

Additional costs include certain required immunizations and clinical liability insurance.

Course Substitution

Course substitutions for supportive requirements may be carried out only if the course to be substituted is equal or superior in content to the course required by the Medical Laboratory Technology program curriculum.

Transfer Credits from Other Institutions

Previous coursework satisfactorily completed at accredited institutions will be evaluated for transfer and applied to the Texas Southmost College degree program.

Upon the student's request, a transcript will be evaluated after registering for The Texas Southmost College credit classes. The request should be made through a counselor or department head. An official transcript is required from each college attended. When the evaluation is complete, the number of transferred hours will be recorded on the TSC transcript.

Graduation candidates are responsible for complying with the catalog's section stating graduation criteria: specifically, the grade points average required for graduation.

Transfer Policy

PURPOSE:

To provide a mechanism for students from other Medical Laboratory Technology programs to enter the TSC Medical Laboratory Technology program appropriately.

POLICY:

A student from an accredited Medical Laboratory Technology program may receive transfer credit and enter the TSC Medical Laboratory Technology program at the appropriate level. The program must meet the approval of the NAACLS.

GUIDELINES:

1. The transfer student must meet all general requirements for the Associate in Applied Science Degree, as outlined in the TSC catalog.
2. The office of Admissions evaluates all student transcripts and will apply for the appropriate credit.
3. The Medical Laboratory Technology program director will evaluate any previous MLT course to determine the nature, content, and level. A student may receive full or partial credit for a course they have completed; a test(s) to assess laboratory skill competencies and knowledge of the content area(s) will be required.

Counseling Services

TSC is staffed with counselors to assist students. In addition, counselors are available at TSC 80 Fort Brown Campus.

The Counseling Center provides various services to all students pursuing academic or vocational/technical programs of study. In addition, the Center offers group and individualized programs to help students deal with academic, career, and personal concerns. All information relating to the counseling services is discreet and confidential.

Advising

The program director will be the advisor for each student upon admission to provide information about the academic program and assist in making informed decisions. In addition, during pre-registration, the program director may be consulted for adding/dropping a course and withdrawing from the Medical Laboratory Technology Program. All advising sessions will be documented.

Disability Services

Texas Southmost College complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. It does not discriminate based on a disability in admission, accessibility, treatment, and employment. Individuals with disabilities, as defined under the law, who are otherwise qualified to meet the institution's academic requirements will be provided with services and resources accordingly. Students and employees must submit the appropriate documentation of the disability by a qualified professional whose license or credentials are appropriate to diagnose. For students with disabilities, reasonable accommodations are made to allow the individual student to succeed at TSC. Accommodations are provided for those students who submit the documentation of the disability by a qualified professional whose license or credentials are appropriate to diagnose the disability. TSC supports efforts in making the campus more accessible and encourages individuals with disabilities to participate in all activities. Students seeking assistance should contact the office of Disability Support Services.

Student Financial Aid Services

TSC provides financial aid to assist students. Financial assistance for eligible students is available in grants loans, college work-study, veterans' benefits, and scholarships. The college catalog contains information on financial aid made available to all students. Students enrolled in the Medical Laboratory Technology program are encouraged to visit the financial assistance department and obtain available financial resources.

Library Facility

The Digital Library's website is your gateway to library resources and services is <https://www.tsc.edu/library/>. The TSC community is welcome to use library resources at our physical location in SET.B. 1.536, where computers, printing, study rooms, and reference assistance are available. You can also explore all the digital library resources, including a wide variety of databases with thousands of scholarly journals and e-books, available to you through the Digital Library Search discovery system located below.

The Medical Laboratory Technology Program counts with a study room that provides students with MLT fields, computers, printers, scanners, and internet services.

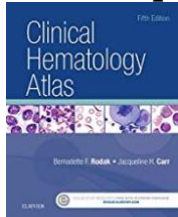
The Learning Assistance Center

TSC has a Learning Assistance Center that serves as an academic resource for students. Proactively, it responds to the needs of the population it serves and is committed to helping the general student population succeed in a college environment. Learning specialists and peer tutors assist students in many areas of study, emphasizing reading, writing, mathematics, language acquisition, test-taking, and study skills. Students have the Brain Fuse for tutor purposes.

Professional Organization

The American Society for Clinical Laboratory Science is the national organization of the profession. The ASCLS holds an annual meeting each summer in one of the major cities of the United States of America. Student membership is approximately \$25.00 a year.

MLT Required Textbooks



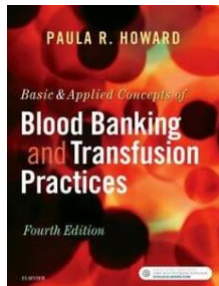
Clinical Hematology Atlas
Edition – Latest (3rd edition)
ISBN-10: 0-7216-0395-5
ISBN-13: 978-0-7216-0395-7
Authors: Carr and Rodak
Publisher: Saunders, Elsevier



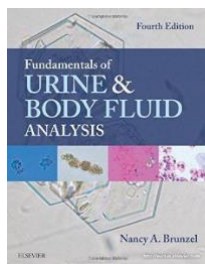
Basic Clinical Laboratory Techniques, 6th Edition
Barbara H. Estridge Auburn University
Anna P. Reynolds Auburn University
ISBN-13: 978-1111138363
ISBN-10: 9781111138363
2012 •Cengage Learning



Hematology in Practice
Edition: 3rd
By Betty Ciesla, MS
ISBN-13: 978-0-8036-6824-9
2015• F.A. Davis Company



Basic & Applied Concepts of Blood Banking and Transfusion Practices
Edition – fourth edition
ISBN: 978-0-323-37478-1
Author(s) Kathy D. Blaney; Paula Howard
Publisher: Mosby

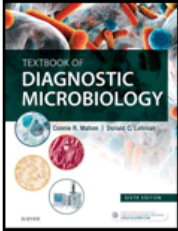


Fundamentals of Urine and Body Fluid Analysis - 4th Edition,
Nancy A. Brunzel
ISBN-13: 978-0323374798
ISBN-10: 0323374794
Elsevier



SUCCESS! in Clinical Laboratory Science, 4/E
Anna Ciulla, California State University, Sacramento
Donald Lehman, California State University, Sacramento
ISBN-10: 0135126487
ISBN-13: 97801351264869780135126486
Copyright: 2010 • Prentice Hall • Paper, 1176 pp
Published 04/03/2009 •

Suggested retail price: \$105.00

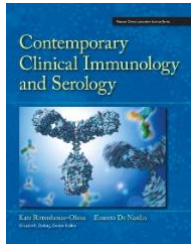


Textbook of Diagnostic Microbiology, 6th Edition

By: Connie R. Mahon, MS, MT(ASCP), CLS and Donald C. Lehman, EdD, MT(ASCP), SM(NRM)

ISBN-13: 978-0323613170

ISBN-10: 0323613179



Contemporary Clinical Immunology and Serology 1st Edition

By: Kate Rittenhouse-Olson and Ernesto DeNardin

ISBN-13: 978-0135104248

ISBN-10: 0135104246



Quick Compendium of Medical Laboratory Sciences

ISBN: 978-0-89189-6616

Note: No additional books are required at this time but may be subject to change

Dismissal/Withdrawal/Readmission Policy

A student may be dismissed from the program for the following reason:

1. Failure to achieve a grade of 75 in any MLT course components: Lecture (cognitive), laboratory (psychomotor), and affective (behavior).
2. Failure to complete laboratory and/or clinical practicum competencies during any MLT course.

3. Inability to adhere to the attendance policy.
4. Unprofessional appearance or unprofessional conduct.
5. Failure to comply with safety, infection control, and HIPAA rules.
6. Failure to comply with rules and regulations of the Program, TSC, or affiliating agency.

The Program Director will make the final decision for dismissal after consultation with the faculty, student, and the Dean of Health Professions Division.

Withdrawal

A student who wishes to withdraw from the Program after registration must meet with the Medical Laboratory Technology Program Director, notify the registrar and the office of the Vice President of Student Services, return all borrowed books and equipment, and clear all accounts. In addition, the Program Director will conduct an exit interview to assure proper advisement, documentation of student records, and plans for readmission as appropriate.

Readmission

Students may be readmitted to the Medical Laboratory Technology Program once after withdrawal or failure of a course. Students who have been dismissed for unsafe clinical practicum practice are not eligible for readmission. Readmission is based on SPACE AVAILABILITY and the student's compliance with conditions/requirements established by the Director. Students applying for readmission must:

1. Be in a good standing position with the college and meets all TSC and MLT admission requirements.
2. Apply, in writing to the Medical Laboratory Technology Program at least 90 days before the program starts.
3. If re-admission is granted, the student will re-enter on a probationary status for at least one semester. At the end of this probationary period, the student will be required to meet with the MLT program staff to discuss his/her progress. Please note that if the student violates the stipulations of probation, the student will be dismissed again. If a student fails or is dismissed twice during the program, the student will not be re-admitted for a third attempt.
4. Complete all courses in the Medical Laboratory Technology Program curriculum within three years from the student's registration in the first course identified with the MLT prefix.
5. Reestablish competency in Lab Skills by obtaining a minimum score of 75% per Core course clinical practicum exam.
6. Reestablish didactic comprehension by obtaining a minimum score of 75% per Core course final taken.
7. Demonstrate compliance with recommendations made at the time of withdrawal from the program. Examples of recommendations may include a repeat of MLT course(s) previously taken.

Medical Laboratory Technology Clinical Practicum Affiliates

Throughout the two years didactic component, the student is expected to complete four clinical practicum classes. The list below identifies the current clinical practicum sites in good standing with TSC Medical Laboratory Technology Program. It is the student's responsibility to commute to and from each site as scheduled. The clinical practicum rotation schedule will be provided to the students by the MLT Faculty at least 2 weeks prior to the beginning of each semester. The schedule will be provided by the MLT Faculty and students are expected to comply. In the event that new sites are acquired, the student is expected to commute to those sites as well.

Harlingen Medical Center
5501 S Expressway 77
Harlingen, Texas 78550
Phone: (956) 365-1035,
Gilbert Guerra, Laboratory Administrative Director
Gguerra@primehealthcare.com

Valley Baptist Medical Center - Brownsville
1040 W. Jefferson St.
Brownsville, TX 78520
Phone: (956) 698-5472
Jean Corbeil, Laboratory Director
Jean.corbeil@valleybaptist.net

Valley Baptist Medical Center - Harlingen
2101 Pease St.
Harlingen, Texas 78550
Phone: (956) 389-1958
Cheryl Cross, Laboratory Director
Cheryl.Cross@valleybaptist.net

Valley Regional Medical Center
100-A Alton Gloor Blvd.
Brownsville, Texas 78520
Phone: (956) 350-7490
Ramon Leos, Laboratory Director
ramon.leos@hcahealthcare.com

Mission Regional Medical Center
900 S. Bryan
Mission, Texas 78572
Phone: 956-323-1301

Isauro Resendez, Laboratory Director
Iresendez@missionrmc.org

Veterans Clinic McAllen
2101 South Colonel Rowe Blvd
McAllen, Texas 78503
Phone: 956 291-9000 x 69282
Acting Laboratory Manager
Dalila Aguirre, MT (ASCP)

Brownsville Community Health Center
191 E Price Road
Brownsville TX, 78521-3527
956-548-7400
Claudia Espinosa, Laboratory Director
cespinosa.bchc@tachc.org

Doctors Hospital at Renaissance, LTD.
5501 S. McColl Road
Edinburg, Texas 78539
956-362-8677
Kalantar Saeed
Lab Director
o. 956-342-0549

Valley Cancer Center
1719 Treasure Hill Blvd.
Harlingen, TX 78550
Phone: 956-430-9448
Isabel Ruiz, Lab Director
iruiz@valleycancer.com

Rio Grande State Center
1401 Rangerville Road
Harlingen, TX 78551
Phone: 956-364-8700
Mary Valencia, Oupatient Clinic Coordinator
Mary.valencia@hhsc.state.tx.us

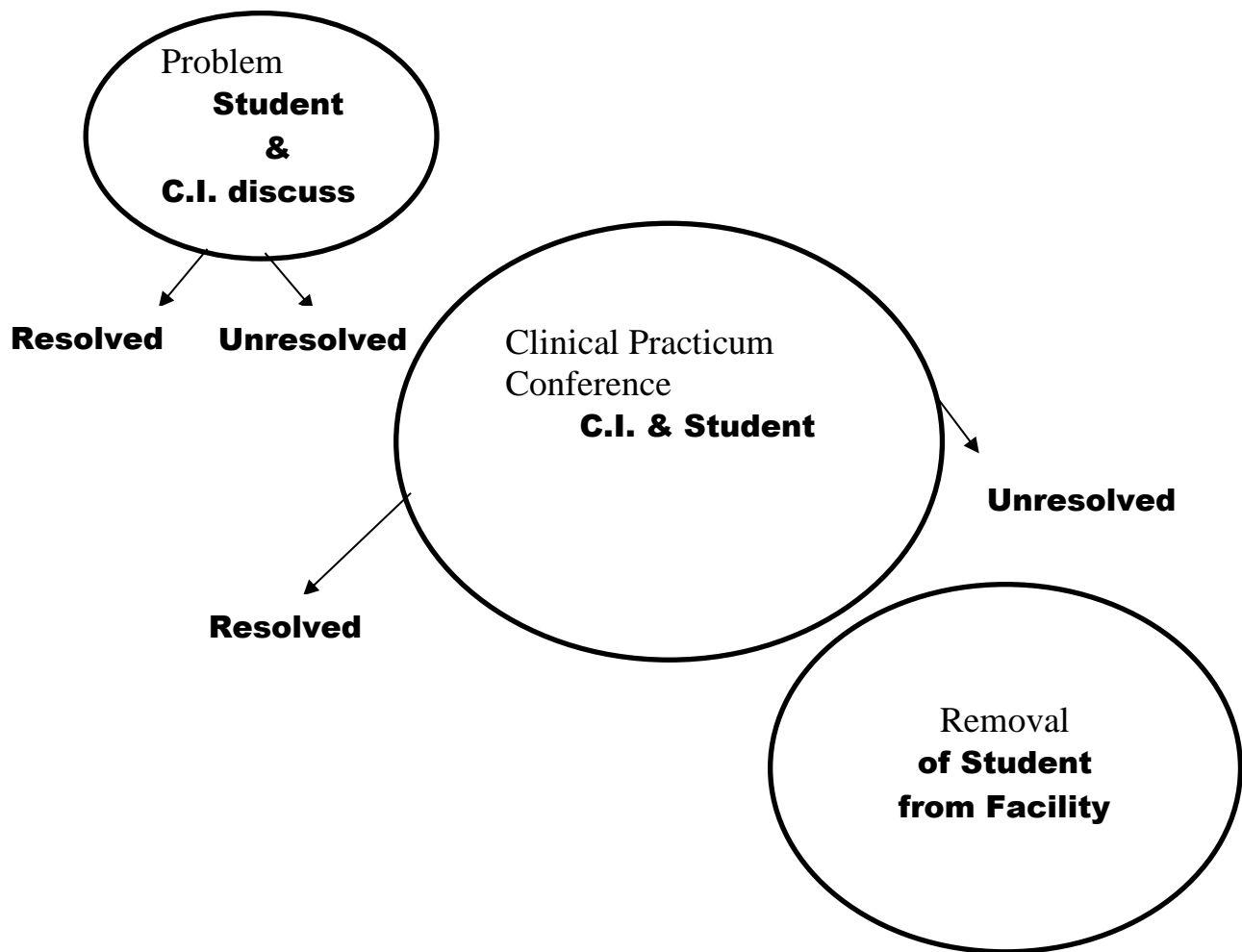
Su Clinica Brownsville
105 East Alton Gloor
Brownsville, TX 78526
Nora Gutierrez

956-831-8338

Su Clinica Harlingen
1706 Treasure Hills Blvd
Harlingen, TX 78550
Mary Alonzo
956-365-6016

Clinical Practicum Site Problem Resolution

Chain of Command



Experience-Based Clinical Practicum Education

The purpose of this document is to identify the essential criteria for the successful completion of clinical practicum education in the Medical Laboratory Technology Program. The MLT program cannot guarantee the clinical practicum experience in the sequential order described by the program of study. However, the best effort is made to accommodate every single student in the clinical practicum site. The program will work to be fair regarding the distance a student may travel to a clinical site. Travel distance is determined by the time from the school, not one's home. Preference for clinical rotations will be given by the students' admissions score into the college/program and successful progression in the program. A wait list will be established for additional students on these same bases. Students will be moved from the waitlist as clinical rotation spaces become available. Due to challenges with procuring clinical rotation sites, adjustments may be made to the academic calendar to ensure clinical rotation time.

If there is a space in the clinical practicum site for the student, the student must register for clinical practicum courses before reporting to the clinical practicum sites.

There are five (5) clinical practicum courses during which the student is expected to master basic, intermediate, and advanced skills in procedures.

Each clinical practicum course will require specific laboratory skills and types of examinations that must be completed and graded before the end of the semester. Please note that points will be deducted if a student does not meet the required categories (see grading criteria).

Clinical practicum Grade Criteria

A clinical practicum grade will be determined based on the following components:

Psychomotor skills

Affective Skills

Cognitive Skills (Success web site)

Reflections

Students must attain at least 75% on each domain to pass the clinical practicum experience.

Insurance

TSC provides Medical Malpractice Liability insurance for all students, but does not cover accident or injury at the clinical site. Students injured at clinical sites should be treated according to the policy of the clinical site. Students will be responsible for any charges incurred at facilities. In any situation where the student is being treated for an injury received during a clinical experience, it is important that the treating facility understand that the injury is related to an instructional experience and is not employment related. Per contract, student injuries occurring during clinical experiences are not covered by Worker's Compensation.

Students shall be responsible for arranging for the personal medical care and/or treatment, if necessary, including transportation in case of illness or injury while participating in clinical

Students are expected to attend every clinical practicum session in its entirety.

For the Medical Laboratory Technology student to succeed in the clinical practicum, they must demonstrate competency in laboratory procedures commonly performed in all laboratory settings. The following identifies the laboratory areas in which students are expected to master.

Phlebotomy

Chemistry

Immunochemistry and Immunology

Clinical Microbiology, Parasitology, and Mycology

Hematology, Coagulation, and Urinalysis and Body Fluids

If the student cannot meet the required comprehensive clinical practicum competencies satisfactorily, the faculty and program director will consult with the student and begin a remediation plan. Due to the structure and chronological order of the competencies, if a student does not meet the required comprehensive clinical practicum competencies satisfactory, he/she would be unable to continue in the program.

Anytime a student earns a grade less than a “C” on professional competency, he/she must see the faculty for counseling. The letter “C” is the minimum passing grade for the MLT program courses.



Student's Name:
Clinical Site:
Period of Evaluation:

This evaluation form is to be filled out by the clinical instructor responsible for the student during the period of evaluation. This appraisal form is used to evaluate the student's performance at the end of the clinical rotation and will become part of the student's permanent record.

Instructions to the Evaluator:

The attached checklist is to be used as a guide to clinical experience and as an evaluation tool. The student's grade will be derived, in part, from this evaluation.

- Please be honest in rating the following characteristics of the student.
- Base your judgment on the behavior you feel is characteristic of the student during the period of evaluation rather than on an isolated incident.
- Place a checkmark in the box that corresponds to the level of achievement attained for each behavior procedure listed.
- If a student falls within a rating which you feel is fair, but part of the descriptor does not apply, mark out the phrase, which does not apply.
- Under the COMMENTS section, please write a brief overview of the student's performance. Also, use the comments to document problems that you encountered with the student, as well as praise. This is very helpful to the students so they will learn their strengths and weaknesses.

Definitions of Performance Levels

0. Not applicable
0. Not evident
1. Basic: Procedure and/or principle explained and discussed and student demonstrates understanding.
2. Intermediate: Student can perform test under direct supervision.
3. Advanced: A student can perform the test with minimum supervision.
4. Expert: A student can perform the test with no supervision

IMPORTANT: If you suspect or know of any student acting unprofessionally or if you have any other concerns please contact the program director, Consuelo Villalon by calling 956-295-3517 or via email at consuelo.villalon@tsc.edu or the clinical coordinator, Maria D Rodriguez by calling 956-295-3520 or via email at maria.rodriguez@tsc.edu.

This evaluation form is to be filled out by the clinical instructor responsible for the student during the period of evaluation. This appraisal form is used to evaluate the student's performance at the end of the clinical rotation and will become part of the student's permanent record.



CLINICAL CHEMISTRY PSYCHOMOTOR OBJECTIVES

Student Name: _____

Date: _____

PROCEDURE	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not evident	N/A Not applicable	*CI Initials
Perform accurately laboratory clerical work including data entry & recording & reporting of laboratory results	4							
Identifies patient specimen request by using two identifiers.	4							
Prepares specimens, using safety guidelines, for use in chemistry procedures	3							
Prepares specimens for shipment to reference laboratories	3							
Performs laboratory calculations including dilutions, creat. cl. etc.	4							
Performs daily set up, calibration & routine maintenance on chemistry instruments.	2							
Perform the complete instrument troubleshooting (solve problem and documentation)	2							
Operates automated chemistry analyzers obtaining reportable results, including	4							

standardization & QC Instrument List:								
Perform complete Q.C. troubleshooting (solve problem and documentation)	3							
Recognizes panic values by taking appropriate actions	3							
Recognizes emergency lab requests by taking appropriate actions	3							
Performa Therapeutic drug assays	3							
Performs lipid panel	4							
Performs Electrolytes to include Na, K, and Cl	3							
Prepares control sera and reagents for use	4							
Performs isoenzyme determinations	2							
Performs representative Immunoassay procedures EIA, RIA flour, etc.	2							
Performs electrophoresis	1							
Handles expected workload entry-level technician	3							

*CI – Clinical Instructor

1. This student has satisfactorily completed this clinical practice: yes () no ()
2. If no, please indicate specific deficiencies which need to be corrected:
3. Any special commendations?

Comments:

Prepared by: _____

Date _____



HEMATOLOGY PSYCHOMOTOR OBJECTIVES FOR CLINICAL PRACTICUM

Student Name: _____ Date: _____

PROCEDURE	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not Evident	N/A Not Applicable	C.I. Initials
Operates automated hematology instrument with minimal supervision and producing results within acceptable ranges.	3							
Implement the standard safety precautions, cleans and disinfects working area.	4							
Recognizes common instrument malfunctions and can perform or discuss corrective procedures.	3							
Performs quality control procedures on hematology instrument, including labeling, dating, re-initialing, checking expiration dates and performs data entry work, recording and reporting functions.	4							
Recognizes out of control results and can suggest how to correct the value that is outside the limits.	4							
Prepares and stains peripheral blood smears for differential, to the satisfaction of instructor.	4							
Recognizes peripheral blood smears with unacceptable cellular distribution and staining.	4							
Performs normal WBC differential, obtaining results that concur with the laboratory with	3							

95% accuracy.								
Performs abnormal WBC differentials, obtaining results that concur with laboratory with 90% accuracy.	3							
Estimates platelets and WBC's, agreeing with instrument counts within 20%.	4							
Identify and grade abnormal RBC morphology including WBC inclusions, according to laboratory guidelines.	4							
Prepares and reads ESR with minimal supervision and results agreeing with the technologist's within 5 % accuracy.	4							
Performs automated reticulocyte counts and is able to manually verify results if necessary according to laboratory guidelines.	4							
Performs manual cell counts on body fluids, agreeing with technologist's count within 20%.	3							
Recognizes critical values and takes appropriate action.	4							
COAGULATION	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not Evident	N/A Not Applicable	*C.I. Initials
Operates automated coagulation instrument with minimal supervision and producing results within acceptable ranges.	3							
Recognizes common instrument malfunctions and can perform or discuss corrective procedures.	3							
Performs quality control procedures on coagulation instrument, including labeling, dating, re-initialing, checking expiration dates and performs data entry work,	4							

recording and reporting functions.								
Performs and interprets PT, PTT, D-dimer and Fibrinogen times with 100 % accuracy and according to instrument standards.	4							
Recognizes critical values and takes appropriate action associates abnormal results with possible pathology.	4							
Operates the coagulation instrument with minimal supervision for 75 % of the time and handles expected workload for entry level technologist.	3							
URINALYSIS		4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not Evident	N/A Not Applicable	C.I. Initials
Operates automated Urinalysis instrument with minimal supervision and producing results within acceptable ranges.	3							
Implement the standard safety precautions, cleans and disinfects working area.	4							
Performs quality control procedures on Urinalysis instrument, including labeling, dating, re-initialing, checking expiration dates and performs data entry work, recording and reporting functions.	4							
Recognizes out of control results and can suggest how to correct the value that is outside the limits.	4							
Prepares and reads samples for microscopic examination correlating macroscopic, chemical and microscopic results.	3							
Recognizes critical values and takes appropriate action associates abnormal results	4							

with possible pathology.								
Operates the urinalysis instrument with minimal supervision for 75 % of the time and handles expected workload for entry level technologist.	3							
Recognizes STAT laboratory request taking appropriate action and verifies patient's information with test requisition.	4							

*C.I. Clinical Instructor

1. This student has satisfactorily completed this clinical practice: yes () no ()

2. If no, please indicate specific deficiencies which need to be corrected:

3. Any special commendations?

Comments:

Prepared by: _____

Date _____

Student's Name: _____

Date: _____



IMMUNOLOGY PSYCHOMOTOR OBJECTIVES FOR CLINICAL PRACTICUM

Student Name _____ Date: _____

PROCEDURE	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not evident	N/A Not applicable	*C.I Initials
<i>Performs data entry work, recording, and reporting functions.</i>	4							
Identifies patient specimen request by using two identifiers.	4							
Recognizes panic values by taking appropriate actions	3							
Performs standard screening test for Syphilis	4							
Prepares specimens for shipment to reference laboratories	3							
Performs slide agglutination tests according to manufacturer's instructions	4							
Recognizes emergency lab requests by taking appropriate actions	3							
Performs daily quality control	3							
Perform complete Q.C. troubleshooting (solve problem and documentation)	3							
Performs Serial Dilution Procedures according to instructions	4							

Perform needle calibration as needed	3							
Handles normal daily workload of entry-level technician	3							

*CI Clinical Instructor

1. This student has satisfactorily completed this clinical practice: yes () no ()
2. If no, please indicate specific deficiencies which need to be corrected.
3. Any special commendations?

Comments:

Prepared by: _____

Date _____



IMMUNOHEMATOLOGY PSYCHOMOTOR OBJECTIVES FOR CLINICAL PRACTICUM

Student Name _____ Date: _____

PROCEDURE	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not evident	N/A Not applicable	*CI Initials
Accurately perform laboratory clerical work, including data entry and patients reports.	4							
Identifies patient specimen and test request by using two identifiers.	4							
Maintains inventory and an adequate supply of blood.	3							
Performs and obtains accurate results using appropriate reagents for ABO and Rh testing.	3							
Performs pre-transfusion testing procedures with accuracy.	3							
Performs and obtains accurate results using appropriate reagents for direct antiglobulin test correct.	3							
Performs and obtains accurate results using appropriate reagents for indirect antiglobulin test correct.	3							
Performs and obtains accurate results using appropriate reagents for	3							

antibody screening test.								
Performs and obtains accurate results using appropriate reagents for antibody identification procedures.	3							
Follows established protocol for uncross-matched donor blood release.	2							
Performs cord blood studies for the investigation of HDN.	3							
Performs quality control procedures on instruments and reagents	2							
Performs complete Q.C. troubleshooting (solve problem and documentation)	3							
Performs correctly simple antibody identification procedures.	2							
Interprets correctly simple antibody identification procedures.	2							
Performs correctly complex antibody identification procedures.	2							
Interprets correctly complex antibody identification procedures.	2							
Using the proper protocol resolves incompatible and/or problem cross –matches.	2							
Issues blood and blood products.	1							

Performs pre-administration testing for Rh Immune Globulin	1							
Handles and process components for administration.								
1- Packed cells	2							
2- Platelets Cryoprecipitate	2							
3- Fresh frozen plasma	2							
4- Leukocyte reduced blood.	2							
5- Investigate suspected transfusion reactions.	1							
6- Screen donor candidates.	1							
7- Observe donor phlebotomy	1							
8- Handles. Expected workload for entry level technique.	3							

*CI Clinical Instructor

1. This student has satisfactorily completed this clinical practice. Yes ____ No ____
2. If no, please indicate specific deficiencies which need to be corrected:
3. Any special commendations?

Comments:

Prepared by: _____

Date _____



MICROBIOLOGY PSYCHOMOTOR OBJECTIVES FOR CLINICAL PRACTICUM

Student Name _____ Date: _____

PROCEDURE	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not evident	N/A Not applicable	*CI Initials
Section 1 (Microbiology) Accurately perform laboratory clerical work, including data entry and patient reports.	4							
Properly handles specimens using two identifiers.	4							
Uses appropriate safety precautions method when handling biological hazards	4							
Properly performs media and instrument quality control procedures	3							
Properly interprets media and instrument quality control procedures	3							
Selects appropriate media based on departmental protocols	4							
Properly plates cultures using acceptable technique	4							
Incubates media in appropriate environment	4							
Evaluates routine cultures differentiating normal flora from possible pathogens	4							
Prepare, smears for pathogen differentiation	3							
Stain smears for pathogen differentiation	3							
Read smears correlating	3							

with colonial morphology								
Properly select, use and interpret biochemical or differential tests for the identification of microorganisms	3							
Use rapid test or automated systems for organism identification	3							
Interpret rapid test or automated systems for organism identification	3							
Properly performs antimicrobial susceptibility testing procedures	3							
Properly handles cultures for anaerobic specimens	2							
Properly handles identification procedures for anaerobic specimens	2							
Identifies positive blood cultures and takes appropriate action	2							
Properly handles mycological cultures	2							
Section 2 (Parasitology) Prepares wet preparations of stool, for ova and larva	3							
Scans wet preparations of stool, for ova and larva	3							
Uses appropriate concentrations & staining techniques, ID Protozoa, OVA & larva	4							
Perform India Ink Prep	2							
Read India Ink Prep	2							
Handles expected workload for entry-level technician.	4							

1. This student has satisfactorily completed this clinical practice. Yes ____ No ____
2. If no, please indicate specific deficiencies which need to be corrected:
3. Any special commendations?
4. Comments:

5. Prepared by: _____

Date: _____



PHLEBOTOMY PSYCHOMOTOR OBJECTIVES FOR CLINICAL PRACTICUM

Student Name: _____ Date: _____

PROCEDURE	Minimum Pass Level	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not evident	N/A Not Applicable	*CI Initials
Clinical Objectives must be met at the clinical practicum site.								
The student implements the standard safety precautions	4							
Demonstrates proper organization of supplies and equipment for collection procedures	3							
Courteous and professional manners with patients	4							
Demonstrates proper procedures for patient identification using two identifiers. Students verify name and patient number by checking ID band and another form (s) of ID. (This is the most important step in the collection procedure).	4							
Performs all blood collection procedures by using correct techniques with 80% accuracy.	3							
Demonstrates proper sample labeling procedures with correct and appropriate information.	4							
Utilizes proper Safety procedure for discarding used equipment and supplies after the procedure.	4							

<u>Thanks</u> patient, discards gloves in the appropriate dispenser, and demonstrates good hand washing technique.	4							
--	---	--	--	--	--	--	--	--

*CI Clinical Instructor

1. This student has satisfactorily completed this clinical practice: yes () no ()
2. If no, please indicate specific deficiencies which need to be corrected:
3. Any special commendations?

Comments:

Prepared by: _____

Date: _____

Affective Evaluation Outline

This document outlines the affective objectives for the MLT program that are the essence of quality health care and professional behavior. The affective objectives, which are listed in this document, are evaluated during the student's clinical practicum rotation using the evaluation Likert scale of Not applicable (0), Not evident (0), Basic (1), Intermediate (2), Advanced (3), and Expert.

Objectives:

During the clinical practicum and upon completions of the program of study in Medical Laboratory Technology, the student will be able to demonstrate appropriate professional behavior, reliability, and positive attitude skills.

1. Appearance
 - a) Dressing appropriately for laboratory work.
 - b) Demonstrating concern for the image of the college MLT program and clinical affiliate.

2. Professional interactions
 - a) Working cooperatively in groups.
 - b) Offering to assist various groups, or laboratory personnel, working as part of a team.
 - c) Showing respect and concern when communicating with patients and healthcare workers.
 - d) Respecting the confidentiality of all privileged information and patient rights.

3. Professional growth
 - a) Accepting responsibility for work produced including critical values and nonsense values.
 - b) Demonstrating ability and interest in solving the problems that arise as part of daily laboratory work.
 - c) Making decisions relates to laboratory work in a manner consistent with his or her level of education and ability.
 - d) Accepting responsibility for errors made, including corrective action where necessary.
 - e) Participating in continuing education opportunities that may be provided by the MLT program or clinical affiliated.
 - f) Accepting constructive criticism as a learning tool

4. Self-Reliance confidence.
 - a) Demonstrating confidence to perform the procedures in a reasonable period of time.
5. Attendance
 - a) Appearing for clinical rotation on time.
 - b) Arriving prepared to begin work as soon as instructed.
 - c) Completing all outside reading and other assignments on time and before arriving at clinical.
 - d) Planning work so that regular breaks can be part of the working day schedule.
 - e) Returning from breaks promptly and resuming work
 - f) Appearing when scheduled.
 - g) Using an assigned method to report absences in advance.
6. Technical Performance
 - a) Demonstrating attention to the details of work assigned.
 - b) Demonstrating some ability to perform more than one task at a time.
 - c) Completing work in the time expected.
 - d) Documenting work performed neatly and accurately.
 - e) Evaluating data before reporting results, including correlating results from laboratory sections.
7. Organizational skills
 - a) Planning work so that assignments are completed by the end of the assigned time, without sacrificing the quality of results.
 - b) Remaining until work is completed, or arranging to complete work during later scheduled.
8. Equipment analysis
 - a) Taking care not to waste reagents and supplies, either through careless use or improper storage.
 - b) Maintaining a clean workstation.
 - c) Operating equipment according to laboratory protocols, including routine maintenance, calibration, and other assigned steps.
9. Patient's sample management.
 - a) Checking for proper specimen identification before performing tests.
 - b) Checking for proper specimen type and quality before performing tests.
10. Compliance.
 - a) Adhering to safety policies.



Medical Laboratory Technician Program
Rating Scale for Evaluation of Affective Objectives

This evaluation sheet gives the clinical instructor the opportunity to express their feelings about the student's value system, emotions, and attitude towards this profession. Therefore, as you rate the student, please mark your ratings as fairly and honestly as possible.

NOTICE TO INSTRUCTOR: Any rating of less than two will require comments.

BACKGROUND INFORMATION

- NAME OF STUDENT BEING EVALUATED:

Date:

- Name of hospital or clinic if applicable:

- The evaluator name and signature:

Clinical Instructor

Lab Director

Lab Supervisor

Faculty

RATING RANGES: Please evaluate the student in the following categories by circling one number per item. The rating ranges from one through four. The Likert scale is Expert (4), Advanced (3), Intermediate (2), Basic (1), and Not Evident (0).

A.) Appearance N/A 0 1 2 3 4

c) Dressing appropriately for laboratory work.

d) Demonstrating concern for the image of the college MLT program and clinical affiliate.

Comments:

B.) Professional Interaction N/A 0 1 2 3 4

- e) Working cooperatively in groups.
- f) Offering to assist various groups, or laboratory personnel, working as part of a team.
- g) Showing respect and concern when communicating with patients and health care workers.
- h) Respecting the confidentiality of all privileged information and patient rights.

Comments:

C.) Professional Growth N/A 0 1 2 3 4

- g) Accepting responsibility for work produced including critical values and nonsense values.
- h) Demonstrating ability and interest in solving the problems that arise as part of daily laboratory work.
- i) Making decisions relates to laboratory work in a manner consistent with his or her level of education and ability.
- j) Accepting responsibility for errors made, including corrective action where necessary.
- k) Participating in continuing education opportunities that may be provided by the MLT program or clinical affiliated.
- l) Accepting constructive criticism as a learning tool

Comments:

D.) Self-Reliance/Confidence N/A 0 1 2 3 4

- b) Demonstrating confidence to perform the procedures in a reasonable period of time.

Comments:

E.) Attendance N/A 0 1 2 3 4

- h) Appearing for clinical rotation on time.
- i) Arriving prepared to begin work as soon as instructed.
- j) Completing all outside reading and other assignments on time and before arriving at clinical.
- k) Planning work so that regular breaks can be part of the working day schedule.
- l) Returning from breaks promptly and resuming work
- m) Appearing when scheduled.
- n) Using an assigned method to report absences in advance.

Comments:

F.) Technical Performance	N/A	0	1	2	3	4
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- f) Demonstrating attention to the details of work assigned.
- g) Demonstrating some ability to perform more than one task at a time.
- h) Completing work in the time expected.
- i) Documenting work performed neatly and accurately.
- j) Evaluating data before reporting results, including correlating results from laboratory sections.

Comments:

G.) Organizational Skills	N/A	0	1	2	3	4
---------------------------	-----	---	---	---	---	---

- c) Planning work so that assignments are completed by the end of the assigned time, without sacrificing the quality of results.
- d) Remaining until work is completed, or arranging to complete work during later scheduled.

Comments:

H.) Equipment Analysis	N/A	0	1	2	3	4
------------------------	-----	---	---	---	---	---

- d) Taking care not to waste reagents and supplies, either through careless use or improper storage.
- e) Maintaining a clean workstation.
- f) Operating equipment according to laboratory protocols, including routine maintenance, calibration, and other assigned steps.

Comments:

I.) Patient's sample Management	N/A	0	1	2	3	4
---------------------------------	-----	---	---	---	---	---

- c) Checking for proper specimen identification before performing tests.
- d) Checking for proper specimen type and quality before performing tests.

Comments:

J.) Compliance:	N/A	0	1	2	3	4
-----------------	-----	---	---	---	---	---

Follows Safety Rules/Regulations/Instruction

Comments:

NOTICE TO STUDENT: Any rating of less than two will require counseling by the clinical coordinator.

Grading Scale (point range):

TOTAL NUMBER OF POINTS:

FINAL GRADE BASED ON PTS.:

Less than 30 points is a “D”. “D” is not a passing grade for the MLT program.

Please Add Comments: -



TSC Student Externship Exit Survey

Name: _____

Program: _____

Externship Site: _____

Please use the scale to rate your externship experience:

4 = exceeds expectations; 3 = meets expectations; 2 = meets most expectations; 1 = below expectation; 0 = not evident; N/A = not applicable

1. The Medical Technologist was helpful, patient, and willing to teach	4	3	2	1	0	N/A
2. The Medical Technologist was positive about students	4	3	2	1	0	N/A
3. The patient testing in this area was appropriate to my knowledge level	4	3	2	1	0	N/A
4. The patient testing in this area was varied to allow different experiences	4	3	2	1	0	N/A
5. The patient testing in this practicum area was enough to keep me busy but not overworked	4	3	2	1	0	N/A
6. Site personnel had a positive attitude toward students	4	3	2	1	0	N/A
7. The facilities for this practicum experience was well equipped, clean and organized	4	3	2	1	0	N/A
8. My program courses prepared me well for the externship	4	3	2	1	0	N/A
9. During this practicum experience, I feel that I was allowed to function as part of the team	4	3	2	1	0	N/A
10. The evaluation given to me for this practicum experience provided constructive criticism	4	3	2	1	0	N/A
11. During my practicum experience, I feel that I started out with a positive attitude and ended with a positive attitude	4	3	2	1	0	N/A
1. My overall evaluation of my externship experience was:	4	3	2	1	0	N/A

Which duties would you have liked more time to practice?

Was the training you received applicable to activities and tasks you were asked to perform at the externship site? Yes ___ No ____. Explain.

Would you recommend this site for future externs? Yes ___ No ____. Explain.

Other comments and suggestions: _____

STUDENT SIGNATURE: _____ DATE _____



Laboratory Performance Rubric
Assessment Scoring Range 0-4

Date: _____

Criteria	4 Expert	3 Advanced	2 Intermediate	1 Basic	0 Not evident	0 Not applica ble
Table Set-Up	Prepares work area completely before starting the lab, without direction.	Prepares work area completely before starting the lab, with some direction.	Prepares work area adequately before starting the lab, with direction.	Lab area is disorganized.	Not evident bench set up	Not applicable (N/A)
Lab Technical Skills	Performs all technical skills using an exemplary technique, without direction.	Performs all technical skills using a very good technique, with some direction.	Performs all technical skills using a good technique, with direct instruction.	Performs technical skills using an inadequate technique, not following direction.	Not evident technical skills	Not applicable (N/A)
Follow Procedures	The student reads and follows procedures, exactly, without direction.	The student reads and follows procedures, very well, with some direction.	The student reads but does not follow procedures and direction.	The student does not read or follow procedure.	Not evident procedure	Not applicable (N/A)
Use of Equipment	The student cares, maintains, and demonstrates outstanding equipment knowledge.	Advance The student cares, maintains, and demonstrate good equipment knowledge.	Intermediate The student somewhat cares, maintains and demonstrates equipment knowledge.	Basic The student does not care, maintain or has poor equipment knowledge.	Not evident Not evident use of equipment	Not applicable (N/A)
Interpretation of the results	Results are interpreted in an easy-to-comprehend	Results are interpreted in a somewhat	Results are somewhat easy to interpret, but	Results are difficult to interpret, and/or	Not evident interpretation of	Not applicable (N/A)

	manner, and include all necessary/relevant data.	easy-to-comprehend manner and include all necessary/relevant data.	do not include all necessary/relevant data.	inaccurate do not include all necessary/relevant data.	results	
Overall Effort	The student shows exemplary effort and needs very little direction.	The student shows a very good effort, but needs some direction.	The student shows good effort, but needs direction.	The student does not show any effort.	Not evident effort	Not applicable (N/A)
Confidence	The student demonstrates outstanding confidence and knowledge in performing procedures.	The student demonstrates good confidence and knowledge in performing procedures.	The student demonstrates confidence but no knowledge in performing procedures.	The student does not demonstrate confidence and/or knowledge in performing procedures.	Not evident confidence	Not applicable (N/A)
Attendance	The student has attended every lab, and always on time. Lab Report on time.	Advance The student has missed only one lab, and/or has been tardy, but has called in. Lab Report late 1 day.	Intermediate The student has missed more than one lab, and/or has been tardy, but not always called in. Lab Report late 2 days	Basic The student has missed more than one lab, and /or has been tardy, but does not call in. Lab Report late more than 2 days.	Not evident attendance	Not applicable (N/A)
Questionnaire/Lab Report	Pristine lab report	Advance Lab report with one error.	Intermediate Lab report with two errors	Basic Lab report with three errors	Not evident lab report	Not applicable (N/A report)



Oral Presentation Outline

This document outlines the oral presentation for the MLT program.

Objectives:

The presentation **MUST** be between 5-10 minutes using PowerPoint.

- The student describes the different pathologies for the topic selected.
- The student explains the pathologic mechanisms involved.
- The student discusses the appropriate laboratory methods for the diagnosis.
- The student lists appropriate treatment to use for the pathologic conditions.

Evaluation

The students will be evaluated according to a Rubric that will have been previously discussed. In addition, the model rubric is included in this document. The rubric uses the Likert scale of Not applicable (N/A), Not evident (0), Basic (1), Intermediate (2), Advanced (3), and Expert. The feedback for the presentation will be only given individually and during office hours.



Oral Presentation

Student Name: _____

Date: _____

GRADING CRITERIA	4.0 Expert	3.0 Advanced	2.0 Intermediate	1.0 Basic	0.0 Not Evident
Presentation Topic: Student selects topic relevant to course material.	Excellent topic	Good topic	Moderate relevant	Some relevance	No relevance
The use of visual aids: The presentation includes appropriate visual aids which the student refers at appropriate times during the presentation.	Excellent visual aids	Good visual aids	Moderate visual aids	Some visual aids	No visual aids

Demonstrate Understanding of the Topic: The student demonstrates knowledge of the topic by giving accurate explanation and answering questions.	Excellent knowledge or understanding of topic	Good knowledge or understanding of topic	Moderate knowledge or Understanding of topic	Some Knowledge or understanding of topic	No knowledge or understanding of topic
Convey Ideas to the audience: The Student speaks clear and loudly using eye contact, a lively tone, and body language to engage the audience.	Excellent audience engagement	Good audience engagement	Moderate audience engagement	Some audience engagement	No audience engagement
Follow time guidelines: The presentation was done in a given time.	Excellent timing	Good timing	Modarate timing	Some time guidelines followed	No time guidelines followed
Documentation: Student used and cited appropriate resources.	Excellent documentation	Good documentation	Moderate relevant documentation	Some documentation use	No citations used

Clinical Practicum Education Requirements Before Graduation

The student must be able to demonstrate competency in all of the procedures identified in the psychomotor objectives. It should be noted that proficiency in laboratory procedures is a continuous process.

Clinical Practicum Grading Distribution

The following distribution is in effect for each clinical practicum course:

PLAB 1261: Clinical

Professional Competencies (psychomotor skills)

Affective skills

Cognitive skills

Reflections

MLAB 1260: Clinical

Professional Competencies (psychomotor skills)

Affective skills

Cognitive skills

Reflections
MLAB 1263: Clinical
Professional Competencies (psychomotor skills)
Affective skills
Cognitive skills
Reflections
MLAB 2260: Clinical
Professional Competencies (psychomotor skills)
Affective skills
Cognitive skills
Reflections
MLAB 2263: Clinical
Professional Competencies (psychomotor skills)
Affective skills
Cognitive skills
Reflections

Time Sheet Policy

Each student will fill out his or her timesheet accordingly:

1. ONLY the student whose name appears on the timesheet should write on that timesheet.
2. Sign in immediately before beginning clinical practicum duties; take care of personal items BEFORE you clock in
3. Sign out for lunch and sign in upon returning from lunch
4. Sign out at the end of your clinical practicum shift with a DAILY clinical instructor signature
5. Timesheets are to remain in the clinical practicum settings at all times
6. Make sure the clinical instructor signs the bottom of the timesheet (on both sides) upon semester completion

**Please arrive at the clinical practicum site at least ten minutes before the designated clinical practicum time.

Infection Control\Standard Policy

Precautions\Safety Policy

Each student will have an in-service on universal precautions, infection control, communicable diseases, and safety held during the program's pre-orientation session and as provided by the

clinical practicum affiliations and or TSC.

Communicable Diseases Policy

Students in the Medical Laboratory Technology Program will be given an orientation on communicable diseases. In addition, the students will follow the guidelines set forth by TSC, the clinical practicum sites, the Centers for Disease Control, Occupational Safety and Health Administration (OSHA), and any other regulatory agency affiliated with both TSC and the clinical practicum affiliates.

Guidelines

1. Students are required to have current immunization records on file. These records must be submitted before the first clinical practicum rotation.
2. If a student cannot meet clinical practicum objectives due to a communicable disease, a passing clinical practicum grade cannot be obtained.

Standard Precautions Policy

Students in the Medical Laboratory Technology Program will receive orientation on Standard Precautions as set forth by the Centers for Disease Control (CDC), Occupational Safety and Health Administration (OSHA), and any other regulatory agency affiliated with TSC and the clinical practicum affiliates.

Guidelines

1. Students will be required to receive the following training:
 - a. Aids Precautions /Universal Precautions
 - b. Using Protective barriers
 - c. Washing hands
 - d. Current infection control guidelines for healthcare professionals
2. Students will be evaluated on the following skills:
 - a. handwashing
 - b. proper disposal of needles/sharps
 - c. adequate disposal for contaminated linens or objects
 - d. appropriate wear of mask, gown, gloves, etc.

Safety Policy

Students will receive orientation on safety before their first day of clinical practicum. Students are advised that exposure to contagious and pathogenic organisms may occur as part of the standard routine of performing clinical practicum examinations on patients in medical facilities. Therefore, students will be required to abide by the safety/regulations that govern the clinical practicum facilities. Safety requirements may include the following:

LAB SAFETY SYLLABUS RULES

1. All hazardous materials and specimens should be handled as though transmitting infectious diseases.
2. Wear disposable gloves when processing specimens. Change gloves when contaminated. Remove gloves when handling uncontaminated objects.
3. No mouth pipetting should be performed. Safety pipetting devices shall be used.
4. Disposable laboratory coats or other protective clothing will be worn in the laboratory and should be entirely buttoned to reduce microorganisms' transfer.
5. No eating, smoking, or drinking should occur in the laboratory area. Food or drink items should not be placed in refrigerators used for laboratory items.
6. Nothing should be placed in one's mouth, including pencils, pens, fingers, etc.
7. No application of cosmetics is allowed in the laboratory.
8. No open-toed shoes should be worn.
9. Long hair should be tied back to avoid contact with the contaminated material or moving instrument parts.
10. Centrifuges should not be operated without covers, and the covers should remain closed until the equipment has stopped.
11. Face shields, eyewear, masks, and splash guards should be used as appropriate.
12. Glassware that is broken or chipped must be appropriately discarded.
13. Asbestos gloves and/or tongs must be used to handle hot glass.
14. Use special precautions when handling needles. No bending, breaking, or recapping of needles by hands. Needles should not be improperly removed from disposable syringes. Instead, needles should be placed in appropriate, puncture-resistant containers.
15. Disposable glassware and tubes contaminated with biological material should be disposed of in biohazard bags for autoclaving.
16. Cultures and clinical specimens other than urine should be disposed of in biohazard bags for autoclaving.
17. The following materials are not to be autoclaved: a) Pressurized cans, b) Carcinogenic chemicals, c) Flammable solvents, d) Explosive materials, e) specimens in vacuum/suction bottles
18. Do not put white trash in the biohazard containers.
19. Sharp objects should be disposed of in designated puncture-resistant containers.
20. Small urine containers may be emptied into the sink. The entire sink and surrounding area should be decontaminated with a disinfection solution.
21. Decontaminate work surfaces with a disinfecting solution at the beginning and end of each lab period if biohazard material is spilled.
22. Label all chemicals clearly with name, concentration, date of preparation, initials of who prepared it, and biohazard information.
23. When acids are diluted, the acid should be added to the water in the sink.
24. Wear safety goggles when working with acids or alkali solutions.
25. Wash hands and remove protective clothing before leaving the laboratory.
26. Students are responsible for cleaning and maintaining their work area. All equipment and reagents should be returned to their proper storage area.
27. Report any accidents to the instructor or teaching supervisor.

28. During the clinical practicum, students must follow exposure protection plans at all times.
29. Personal protective equipment such as splash guards, face shields, goggles, disposable lab coats, plastic aprons, and latex gloves are available and must be used when appropriate.

You must read and follow the Safety and Infection Control Manual rules from each clinical site for more information.

Student Immunization Policy

Students are required to maintain current immunizations. This includes yearly TB testing, Hep. B vaccine series, tetanus (every 10 yrs.), and other routine childhood immunizations. Students must be current on appropriate immunizations to be allowed in the clinical practicum sites. Students are financially responsible for their health care/hospitalization costs incurred while participating in the Medical Laboratory Technology Program.

Dress Code (Uniform Policy)

General Information

1. The appearance of all students must generate confidence and respect from patients, families, and other visitors from the community in all clinical practicum agencies.
2. Students' grooming practices shall make up ample provision for sanitation, safety, class, and comfort. In addition, the student must wear the uniform at all times while at the clinical practicum site and class.
3. TSC uniforms are NOT to be worn when the student is working as an EMPLOYEE OR VOLUNTEER.
4. All students shall be required to present a clean and neat appearance for a professional healthcare environment and class.

What is appropriate?

1. Uniform must be designated color scrub pants and top; neat, clean, well-fitting, and without tears. Uniforms must be appropriately hemmed, not pegged or rolled up.
2. TSC-MLT logos will be embroidered to uniform, lab coat, and polo shirt.
3. No sweaters are to be worn as uniform tops.
4. A student's name must be embroidered to the scrub top any time the student is in a clinical practicum area or class.
5. Uniform shoes must be according to uniform guidelines
6. Students must wear student uniforms in class and on clinical practicum days.

7. Hair must be neat, clean, and up collar or secured in a ponytail, bun, or braid. Hair ornaments must be small and neutral in color. Beards and mustaches must be kept trimmed and clean.
8. Whether natural or applied, nails must be clean, neat, and not excessively long (fingertip length only). So clear, polish may be worn (no reds, hot pinks, blues, blacks, greens, or purples allowed).
9. A student may wear a wedding band, a simple necklace inside the uniform, and stud-type earrings which are ½ inch or smaller in size. No more than two pairs of stud-type earrings on the lobes are acceptable. Loop earrings are not acceptable. No other jewelry is allowed.
10. Ear piercing is the only body piercing that is allowed in the clinical practicum area. If one has other noticeable piercing (e.g., eyebrow, lip, nose, tongue, etc.), the ring, bar, or another ornament must be removed, or the area must be covered with a clean bandage.
11. Black Socks will be worn with uniform shoes.
12. A black thermal undershirt may be worn underneath the scrub top during winter or in departmental areas where the temperature is very low.
13. Students may wear a wristwatch.

What is NOT appropriate?

1. An oversized uniform that may make you look sloppy.
2. Pant legs stuck into socks.
3. Uniform without appropriate logos and nametag.
4. Lab coat without appropriate patch and nametag.
5. Hair hanging in front of the face or below the collar.
6. Untrimmed beards or mustaches.
7. Long fingernails that exceed the required length (fingertip length).
8. Inappropriate jewelry: dangling or earrings too large, heavy, and long chains with large pendants or medallions.
9. Canvas shoes, sandals, colored tennis shoes, no street tennis shoes.
10. Wearing any other badges, belts, bows, etc., other than the prescribed accessories.
11. Colored socks (other than black) worn with uniforms.
12. No beepers or cellular telephones are allowed at the clinical practicum site (not even on vibrate or off mode).
13. Chewing gum, eating food, or drinking beverages while on duty at the clinical practicum site or class.
14. Reading ANY material NOT related to MLT school studies, i.e., magazines, internet computer sites, etc.
15. Napping while on duty at the clinical site or class.
16. Communication or gossip among students between different clinical practicum sites or colleges.

Caution: If the clinical practicum site has specific regulations concerning the lab coats, the students shall adhere to the specified rules.

Pregnancy Policy

A student can participate in all program activities contingent upon the student's clinician's approval. Disclosure of pregnancy status to the Program Director or Faculty is strictly voluntary.

GUIDELINES:

1. Disclosure of pregnancy status to the Program Director or Faculty is strictly voluntary.
2. If pregnancy is documented and the student elects to remain in the program, the following options must be exercised by the student:
 - a. The student must receive medical clearance by the physician that she will be physically able to participate in normal educational /clinical practicum activities conducted by the Laboratory Technician Program (see Physician's Awareness of Pregnancy Form).
 - b. The student will be asked to sign a pregnancy release form that states that TSC and its educational, clinical practicum sites will not be liable for injuries incurred.
3. The following options are available to students who decline acceptance or continuation in the program.
 - a. Students may ask to be reinstated for the subsequent class within one year.

The following activities are performed (but not limited to) daily by all Medical Laboratory Technology students:

1. Work in a clinic or hospital environment where there is a potential risk of exposure to bloodborne pathogens / communicable diseases
2. Stand for prolonged periods (maximum of 8 hrs.)
3. Operate laboratory equipment
4. Lift, carry, and push materials or objects (5-30 lbs.)
5. Reach for items above head level
6. Bend extensively throughout daily activities
7. Handle needles and sharp instruments

Clinical Site Telephone Calls Policy

NO PERSONAL TELEPHONE calls will be MADE or RECEIVED unless:

1. it is a verifiable emergency (family emergency)
2. it is a verifiable call from the Program Director/ TSC Faculty
3. if the student is in break or lunchtime.

Incident Report /Counseling Policy

The intent of this incident form is to provide reporting of a student's personal, professional, or behavioral conduct occurrences within the clinical practicum setting. (See incident report/counseling form)

GUIDELINES:

1. Faculty, clinical instructor(s) will fill out an incident report form.
2. When filling out the form, the following information must be included in the description of the incident:
 - a. date/time of the incident
 - b. names of individual(s) involved
 - c. summary describing the incident
3. The appropriate channels of reporting are:
 - a. Clinical Instructor → Faculty → Program Director
4. This form will be filed in the student's clinical practicum file.
5. The student will be asked to provide comments concerning the incident.

Note: The following are a few examples of the types of offenses documented:

- a. malicious treatment/harassment
- b. threatening or intimidating another individual
- c. assault/sexual assault
- d. unauthorized use of drugs, alcoholic beverages, weapons, or explosives
- e. theft or falsification of records or information
- f. disruptive activities
- g. negligence regarding the patient's safety and welfare
- h. negligence regarding the use and operation of laboratory equipment
- i. breaching of confidentiality (patients records, diagnosis, etc.)
- j. not following clinical practicum policies/guidelines
- k. napping while on clinical practicum duty

* Depending on the severity of the offense, the college will take the necessary disciplinary action against a student for an offense with a minimum penalty of suspension to a more serious penalty of dismissal from the Medical Laboratory Technology Program.

Student Employment Policy

It is not the policy or the intent of the Medical Laboratory Technology Program to act as an employment agency or to participate in any facet of employment. Therefore, the program will remain a separate entity from the employment status of the MLT student.

Criminal Background Check / CPR Policies

BG Check: A criminal background check for MLT students and faculty is required for clinical facilities. At the time of application, all students are provided information that, if selected, they will be admitted only upon completion of a criminal background check through a TSC approved vendor. The applicant is responsible for the fee for the criminal background check.

Positive criminal histories will be reviewed anonymously by the Consortium for Health Professional Education (CHPE). CHPE is made up of high-ranking personnel from TSC and area hospitals. The CHPE reviews each case individually and determines whether that applicant will be allowed to attend clinical practicum. Therefore, students may not complete the program without attending clinical training.

Students should be advised that application for state licensure will again involve a review of criminal history by the state licensure board, which may or may not be approved independently of the CHPE finding.

CPR: A valid American Heart Association BLS course C CPR card is required to register for Clinical Practicum. The Student can take the American Heart Association BLS Course C through TSC for continuing education or from another source of the student's choice. Red Cross CPR will not be honored.



**Medical Laboratory Technology Program
Physician's Awareness of Pregnancy**

Student Name	Date of Birth	Social Security #
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The student named above is presently enrolled in Texas Southmost College Medical Laboratory Technology Program. Due to the nature of the Program, this student may be exposed to particular hazards (i.e. lifting, possible exposure to contagious disease, etc.). In order to determine the appropriate precautions, we need the following information:

1. Approximate date of conception _____
2. Approximate date of delivery _____
3. Present health status _____
4. Will the student be under your care during her pregnancy?
 Yes No
5. Do you recommend her continuation with Clinical Practicum Education?
 Yes No
6. Do you recommend that she continue in the Program?
 Yes No
7. Recommended date maternity leave to begin: _____
8. Recommended date Clinical Practicum Education may resume after delivery. _____

NOTE: A written release is required before this student may return to clinical practicum.

Physician's Printed Name	Date
Physician's Signature	Date



Medical Laboratory Technology Program Consent and Release to Have Invasive Procedures Performed

In consideration of receiving live “hands-on” skills practice in (check all that apply):

venipuncture,
 other invasive procedures associated with my student level (*please specify:* _____),

I agree to allow the invasive procedures specified above to be performed upon my person by other Texas Southmost College MLT students and/or faculty who shall practice “standard precautions” (CDC, 1994) during said procedures. I assume full responsibility for any consequences of such procedures. I understand that I may at any time withdraw my consent without any penalty to my grade or clinical evaluation. If I decide to withdraw my consent, I will promptly notify a TSC paramedic faculty of my decision. I have been advised, and I am aware that risks are associated with venipuncture or the other invasive procedures noted above. For example, risks related to venipuncture include but are not limited to bleeding, bruising, or infection at the venipuncture site. There is also a risk of an allergic response to the solution used for cleansing the area.

I, my successors, assignees, and personal representatives shall be bound by this release. I further jointly, and severally, hereby agree to hold harmless, release, and indemnify any and all agents and students of TSC and employees including, but not limited to, faculty, from any and all injury, causes of actions, claims, demands, or liability incurred during the performance of venipuncture and other specified invasive procedures upon my body by other TSC students and/or MLT faculty.

By signing this release I affirm that I have read and understood the preceding. I also understand that **MLT STUDENTS CAN ONLY PRACTICE INVASIVE PROCEDURES** (e.g., venipuncture, etc.) in a TSC-approved clinical/laboratory setting **UNDER THE DIRECT SUPERVISION OF A TSC MLT FACULTY INSTRUCTOR** or other approved Health Care worker certified to perform these skills. Therefore, this release and consent are hereby entirely, freely, and voluntarily executed by me.

PERTINENT HEALTH HISTORY CIRCLE ONE

1. Has there been any change in your general state of health in the last year? Yes No
2. Have you ever had any excessive bleeding requiring special treatment? Yes No
If yes, describe:
3. Do you have any known allergies to alcohol, Betadine, or tape? Yes No
4. Are you currently taking medications that may prolong clotting time? Yes No

TSC MLT Student/ Date

TSC MLT Faculty/ Date



**Medical Laboratory Technology Program
Incident Report Form**

Name: _____ Location: _____

Date: _____ Type of Record: Verbal or Written: _____

DESCRIPTION OF INCIDENT:

RECOMMENDATIONS:

1. _____
2. _____
3. _____

STUDENT COMMENTS:

Student Signature

Clinical Coordinator



**Medical Laboratory Technology Program
Advisement /Counseling Form**

Name: _____

ID Number: _____

Date: _____

Instructor: _____

Type of Advisement:

Academic

Financial

Behavioral

Clinical practicum

Identify type of referral if necessary:

Academic, referral to _____

Behavioral, referral to _____

Clinical practicum, referral to _____

DESCRIPTION OF ADVISEMENT/REFERRAL:

RECOMMENDATIONS:

1. _____

2. _____

STUDENT COMMENTS:
