

## **MEDICAL LABORATORY TECHNOLOGY/ CLINICAL LABORATORY TECHNICIAN**

The Medical Laboratory Technology curriculum is a two-year Associate of Applied Science degree program of study that prepares individuals to work in a medical laboratory. This program is designed to meet the standards and requirements for careers in clinical laboratory science. At career entry, the medical laboratory technician/clinical laboratory technician will be able to perform routine clinical laboratory tests (such as hematology, clinical chemistry, immunohematology, microbiology, serology/immunology, coagulation, molecular, and or emerging diagnostics) as the primary analyst making specimen-oriented decisions on predetermined criteria. Upon successful completion of the technical program, the student will be eligible to take a national certification examination.

The Medical Laboratory program consists of a two academic years and two summers. Courses in biological, chemical, and social sciences, mathematics, humanities, and fine arts provide foundation and support for the technical courses. The MLT courses combine theory and clinical learning experiences in a related sequence. The practicum is a twenty-eight week comprehensive learning experience in an affiliated hospital during which the student builds technical skills under direct supervision of the clinical instructor. It comprises the fourth semester and a summer session.

Affiliated hospitals are Grenada Lake Medical Center in Grenada, Delta Regional Medical Center in Greenville, Greenwood Leflore Hospital in Greenwood, and Northwest Mississippi Regional Medical Center in Clarksdale. Clinical assignments are at the discretion of the college.

The MDCC Medical Laboratory Program is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS). Graduates of the program are awarded an Associate of Applied Science Degree and are eligible to write the national certification exam.

### **Legal Limitations** for Employment as a MLT:

According to Mississippi State Law, an individual may not be eligible for employment in a health care agency if the person has ever been convicted of a felony , or plead guilty to , or plead nolo contendere to a felony of possession or sale of drugs, murder, manslaughter, armed robbery, rape, sexual battery, sex offense listed in Section 45-33-23 (f), child abuse, arson, grand larceny, burglary, gratification of lust or aggravated assault, of felonious abuse and/or battery of a vulnerable adult.

### **MINIMUM ADMISSION REQUIREMENTS:**

Applicants must:

- meet general admission requirements for technical students.
- be a high school graduate or have a satisfactory GED score.
- have a minimum ACT score of 18 (15 if taken before October 28, 1989) if entering college for the first time OR  
a minimum ACT score of 16 to17 (12 to14 if taken before October 28,

1989) and have completed at least 12 semester hours with a “C” average or better on courses approved by the MLT program.

- submit a signed, notarized Healthcare Criminal History Background Affidavit.
- take the HOBET entrance test at the applicant’s own expense. The exam may be taken only once a year.

#### PROCEDURE:

Applicants must have the following documents on file in the Health Sciences office by April 1 to be considered for admission to the Medical Laboratory Program:

- MDCC application for admission or readmission
- MDCC application to the Medical Laboratory Program
- An official high school transcript from an approved high school or GED equivalency score
- An official college transcript, if college work has been completed
- ACT score
- Signed, notarized Healthcare Criminal History Background Affidavit
- HOBET test score
- Personal/Work reference form

Students are encouraged to submit all parts of the application well in advance of the deadline. **Incomplete applications will not be reviewed for admission.**

#### SELECTION:

No applicant will be considered unless the minimum admission requirements are met. Requirements are based on ACT scores, GPA scores, HOBET, & performance on core courses, with emphasis on mathematics and science background, submitted in a timely manner. All applicants are considered on a competitive basis. Meeting the minimum requirements does not guarantee admission into the program. The number of applicants accepted is limited due to the nature of the program. Applicants will be notified of their acceptance or non-acceptance to the program. The acceptance letter will include specific instructions regarding all requirements that must be completed prior to August admission. These requirements are listed below:

- completion of Anatomy & Physiology I (BIO 2513/2511) and Anatomy & Physiology II (BIO 2523/2521) with a grade of “C” or better during the summer session or regular session prior to admission to the MLT program
- satisfactory completion of First Aid CPR (HPR 2211) taught during the summer
- satisfactory background check (see Policy on Admission to Health Science Program)
- health evaluation form completed by a physician or nurse practitioner
- proof of Hepatitis-B vaccination, MMR vaccination and TB skin test
- acceptable pre-admission drug screen

#### STUDENT RESPONSIBILITIES:

Students who are accepted into the program must:

- attend a Health Sciences orientation session.
- be aware that, in addition to the regular college fees, Medical Laboratory Technology students will incur expenses for such items as uniforms, books,

supplies, liability insurance, background check, Hepatitis B vaccination series, national and state certification examination fees, graduation fees, and registry review seminars.

- be responsible for their own transportation to the college campus and clinical agencies.

#### PROGRESSION:

A Medical Laboratory Technology student must maintain a grade of “C” in all MLT, mathematics, and science courses to progress in the program.

#### READMISSION OR TRANSFER:

Students seeking readmission to the program or transfer credit from another MLT program are considered on an individual basis according to the health sciences readmission and transfer policies.

#### ADVANCE PLACEMENT

College policies concerning advanced placement in the academic division are stated in the College Catalog. Students who successfully complete the MDCC Phlebotomy program (PBT 1113 and PBT 1122) and have been selected into the Medical Laboratory program may waive enrollment in MLT 1112 Fundamentals of Medical Laboratory / Phlebotomy.

Students applying for the MLT program who have earned credits by transfer, exam, or evaluation which are equivalent to the entire first year of the program would be placed into the second year courses on a space-available basis.

#### CERTIFICATION AND LICENSURE

Upon completion of the program in July, students are eligible to sit for a national certification examination. Most students choose certification through the American Society of Clinical Pathology Board of Registry (ASCP), American Medical Technologist (AMT), or the National Credentialing Agency for Laboratory Personnel (NCA).

Mississippi does not require a state license, though a number of states do. In most states requiring a license, national certification exams are accepted as proof competency and no other testing is required.

Completion of the MLT Program is not contingent upon passage of any external certification examination.

Accredited by:

National Accrediting Agency of Clinical Laboratory Science  
8410 W. Bryn Mawr Avenue, Suite 670  
Chicago, IL 60631-3415  
(770) 714-8880

### COMPLIANCE STATEMENT:

“Mississippi Delta Community College complies with all applicable laws regarding affirmative action and equal opportunity in all its activities and programs and does not discriminate against anyone protected by law because of age, color, disability, national origin, race, religion, sex, handicap, or status as a veteran or disabled veteran.” The following persons have been designated to handle inquiries regarding the non-discrimination policies: Dr. Lynda Steele, Vice President of Administrative Services, Stauffer-Wood Administration Building, P. O. Box 668, Moorhead, MS 38761, 662-246-6558. The students’ contact is: Center of Learning at 662-246-6251”

## **MISSISSIPPI DELTA COMMUNITY COLLEGE MEDICAL LABORATORY TECHNOLOGY Standard Function for Admission and Progression**

The following standard functions provide descriptions of basic cognitive, sensory, affective, and psychomotor requirements for successful Medical Laboratory Technology program completion. Applicants and students who cannot meet one or more of the requirements will be considered on an individual basis in terms of whether reasonable modification/accommodation can be made. Reasonable accommodations will be examined in accordance with the Americans With Disabilities Act (ADA) as well as the Standard functions for Admission and Progression.

In order to successfully complete the Medical Laboratory Technology, an applicant/student must be able to do the following:

### **Standard Observation Function**

#### **The MLT student must be able to:**

- Observe laboratory demonstrations in which biologicals are tested for their biochemical, hematological, immunological, microbiological, and histochemical components.
- Characterize the color, odor, clarity, and viscosity of biologicals, reagents, or chemical reaction products. Employ a clinical grade binocular microscope to discriminate among the structural and color (hue, shading, and intensity) differences of microscopic specimens.
- Read and comprehend text, numbers, and graphs displayed in print and on a video monitor.

### **Standard Movement Function**

#### **The MLT student must be able to:**

- Move freely and safely about a laboratory.
- Reach laboratory bench tops and shelves, patients lying in hospital beds or patients seated in specimen collection furniture.
- Travel to numerous clinical laboratory sites for practical experience.
- Perform moderately taxing continuous physical work, often requiring prolonged sitting, over several hours.
- Maneuver phlebotomy and culture acquisition equipment to safely collect valid laboratory specimens from patients.

- Control laboratory equipment (i.e. pipettes, inoculating loops, test tubes) and adjust instruments to perform laboratory procedures.
- Use an electronic keyboard to operate laboratory instruments and to calculate, record evaluate, and transmit laboratory information.

### **Standard Communication Function**

#### **The MLT student must be able to:**

- Read and comprehend technical and professional materials
- Follow verbal and written instructions in order to correctly and independently perform laboratory test procedures
- Clearly instruct patients prior to specimen collection.
- Effectively, confidentially, and sensitively converse with patients regarding laboratory tests.
- Communicate with faculty members, fellow students, staff, and other health care professionals verbally and in a recorded format
- Independently prepare papers, prepare laboratory reports, and take paper, computer, and laboratory practical examinations.

### **Standard Intellectual Function**

#### **The MLT student must be able to:**

- Possess these intellectual skills: comprehension, measurement, mathematical calculation, reasoning, integration, analysis, comparison, self-expression, and criticism.
- To exercise sufficient judgment to recognize and correct performance.

### **Standard Behavioral Function**

#### **The MLT student must:**

- Be able to manage the use of time and be able to systematize actions in order to complete professional and technical tasks with realistic constraints.
- Possess the emotional health necessary to effectively employ intellect and exercise appropriate judgment.
- Be able to provide professional and technical services while experiencing the stresses of task-related uncertainty and a distracting environment.
- Be flexible and creative and adapt to professional and technical change.
- Recognize potentially hazardous materials, equipment, and situations and proceed safely in order to minimize risk of injury to patients, self, and nearby individuals.
- Adapt to working with unpleasant biologicals.
- Support and promote the activities of fellow students and of health care professionals. Promotion of peers helps furnish a team approach to learning, task completion, problem solving and patient care.
- Be honest, compassionate, ethical and responsible. The student must be forthright about errors or uncertainty. The student must be able to critically evaluate her or his own performance, accept constructive criticism, and look for ways to improve. The student must be able to evaluate the performance of fellow students and tactfully offer constructive comments.

## MEDICAL LABORATORY TECHNOLOGY/CLINICAL LABORATORY TECHNICIAN

REQUIRED COURSES:	Prev. Taken	FALL ___	SPRING ___	FALL ___	SPRING ___	SUMMER ___
*BIO 2513/2511 Anatomy & Physiology I	Summer prior to entrance					
* BIO 2523/2521 Anatomy & Physiology II	Summer prior to entrance					
CHE 1314 Prin. of Chemistry I OR CHE1213/1211 General Chem. I		CHE1314				
ENG 1113 Comp I		ENG1113				
MAT 1313 College Algebra		MAT1313				
MLT 1112 Fundamentals of MLT OR PBT 1113 Phlebotomy & PBT 1122 Phlebotomy Clinical		MLT1112				
Humanities Elective 3 hrs		Elective				
Social/Behavioral Science 3 hrs		Elective				
CHE 1324 Prin of Chemistry II OR CHE1223/1221 General Chem II			CHE1324			
MLT 1212 Urinalysis			MLT1212			
MLT 1313 Hematology I			MLT1313			
MLT 1413 Immunology/Serology			MLT1413			
MLT 2512 Parasitology			MLT2512			
SPT 1113 Public Speaking I			SPT1113			
MLT 1324 Hematology II				MLT1324		
MLT 1515 Clinical Chemistry				MLT1515		
MLT 2424 Immunohematology				MLT2424		
MLT 2614 Path. Microbiology				MLT2614		
MLT 2916 Clinical Practicum I					MLT2916	
MLT 2926 Clinical Practicum II					MLT2926	
MLT 2936 Clinical Practicum III						MLT2936
<b>APPROVED ELECTIVES:</b>						
ENG English Comp II						
CSC Computer Applications						
<b>Fine Arts:</b>						
Art or Music Appreciation						
<b>Humanities</b>						
ENG Literature						
MFL Spanish or French						
MAT Calculus/Trig/Stats						
HIS World Civ I/II						
SOC Sociology or other Behavioral Science						
PSY Gen Psychology						
BIO Microbiology						
<b>HPR ELECTIVES:</b>						
HPR2213 First Aid/CPR	Summer prior to entrance					
<b>Total Hours:</b>	<b>8</b>	<b>18</b>	<b>17</b>	<b>17</b>	<b>12</b>	<b>6</b>
<b>Advisor Initials:</b>						
<b>Date:</b>						

**\*Required Prerequisites**

An Associate in Applied Science degree will be awarded upon completion of not less than seventy-eight hours of credit with a minimum cumulative grade point average of 2.00. Students should consult the catalog of the university to which they plan to transfer for specific degree requirements.

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