

## Medical Laboratory Technician (MLT) Program

The Medical Laboratory Technician (MLT) is qualified academically in applied science education to provide clinical laboratory skills and knowledge in rapidly changing and dynamic healthcare delivery systems. Medical laboratory technicians perform, evaluate, correlate, and assure accuracy and validity of laboratory information; direct and supervise clinical laboratory resources and operations; and collaborate in diagnosing and treating patients. The Associate in Applied Science program offers a balanced curriculum which consists of general education and medical laboratory technician courses designed to be completed in five consecutive semesters.

Medical laboratory technician professionals practice independently and collaboratively. They have the requisite knowledge and skills to educate within the profession, other health care professionals, and the public. The medical laboratory technician must have the ability to relate to people, possess a capacity for clinical judgment, and demonstrate a commitment to the patient. MLT graduates can be found in various settings, including physician offices, hospital laboratories, clinics, public health facilities, and research institutions. Successful completion of the Program prepares graduates for entry into laboratory medicine and taking a national board of certification examination. The SSCC Medical Laboratory Technician program is seeking accreditation by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), located at 5600 N. River Rd, Suite 720 Rosemont, IL 60018-5119; phone 773.714.8880; fax: 773.714.8886.

### Minimum Admission Requirements for the MLT Program:

1. Applicants must have unconditional admission to the College.
2. Applicants must complete and submit an application for the MLT program.
3. Applicants must meet certain essential functions defined by National Accredited Agency for Clinical Laboratory Sciences (NAACLS's Standard). Essential functions are the abilities and tasks that a student must be able to perform to be successful in the learning experiences and completion of the Program. Check out the Program Handbook for more details.
4. Applicants must submit a copy of a minimum score of one of the following: ACT reading score of 17, Next Generation ACCUPLCAER reading score of 244, or ACCUPLACER reading score of 70; ATI TEAS of 58%. The exam must have been taken within the last three years.
5. Applicants must have a minimum of 2.5 GPA on a 4.0 scale in general education courses required for the MLT Program.
6. Applicants must have a minimum of 2.0 GPA on a 4.0 scale on all completed college coursework.
7. Applicants must have completed prerequisite courses with a grade of C (70) or above: BIO 103 - Principles of Biology I, CHM 104 - Introduction to Inorganic Chemistry, ENG 101 - English Composition I, and MTH 100 - Intermediate College Algebra or higher-level math course.
8. Applicants must attend or view a Health Services Program Information Session within the last year before applying to the Program.

Note: Meeting minimum requirements does not guarantee acceptance. The number of students selected each year is limited, and the application process is competitive.

### Information for Calculation of Points for Program Admission:

After meeting all minimum admission requirements, applicants are evaluated based on the following points system:

1. Up to 50 points for completing the required general education courses with a grade of C (70) or above
2. 10 points for completion of Phlebotomy Technician (PBT) courses

3. 10 points for a minimum of 6 months of work experience in a medical laboratory
4. Up to 10 points for placement test scores exceeding minimum requirements
5. Up to 20 points for a cumulative GPA over 2.0

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## CURRICULUM SEQUENCE FOR MEDICAL LABORATORY TECHNICIAN PROGRAM

### Semester I

#### PREREQUISITE COURSES (ACADEMIC/GENERAL EDUCATION)

Course	Total Credits	Theory/Lecture Hours	Lab Hours	Clinical Hours	Total Contact Hours
ORI 101 Orientation to College	2	2	0	0	2
BIO 103 Principles of Biology I	4	3	2	0	5
CHM 104 Introduction to Inorganic Chemistry	4	3	2	0	5
ENG 101 English Composition I	3	3	0	0	3
MTH 100 Intermediate College Algebra or higher-level math course	3	3	0	0	3
<b>Semester Total</b>	<b>16</b>	<b>14</b>	<b>4</b>	<b>0</b>	<b>18</b>

### Semester II

Course	Total Credits	Theory/Lecture Hours	Lab Hours	Clinical Hours	Total Contact Hours
MLT 111 Urinalysis and Body Fluids	4	3	3	0	6
MLT 131 Laboratory Techniques	4	3	3	0	6
MLT 181 MLT Immunology	2	1	3	0	4
PSY 200 General Psychology	3	3	0	0	3
SPH 106 Fundamentals of Oral Communication or SPH 107 Fundamentals of Public Speaking	3	3	0	0	3
<b>Semester Total</b>	<b>15</b>	<b>12</b>	<b>9</b>	<b>0</b>	<b>21</b>

### Semester III

Course	Total Credits	Theory/Lecture Hours	Lab Hours	Clinical Hours	Total Contact Hours
*Humanities Elective	3	3	0	0	3
MLT 121 MLT Hematology	5	3	6	0	9
MLT 151 MLT Medical Chemistry	5	3	6	0	9
<b>Semester Total</b>	<b>14</b>	<b>10</b>	<b>12</b>	<b>0</b>	<b>22</b>

\*Choose from ENG 251, ENG 252, ENG 261, ENG 262, ENG 271, ENG 272, HUM 299, PHL 206, REL 100 REL 151, REL 152, SPA 101, or SPA 102.

### Semester IV

Course	Total Credits	Theory/ Lecture Hours	Lab Hours	Clinical Hours	Total Contact Hours
MLT 141 MLT Microbiology I	5	3	6	0	9
MLT 142 MLT Microbiology II	3	2	3	0	5
MLT 161 Integrated Laboratory Simulation	2	0	6	0	6
MLT 191 MLT Immunohematology	5	3	6	0	9
<b>Semester Total</b>	<b>15</b>	<b>8</b>	<b>21</b>	<b>0</b>	<b>29</b>

### Semester V

Course	Total Credits	Theory/ Lecture Hours	Lab Hours	Clinical Hours	Total Contact Hours
MLT 293 MLT Seminar	2	2	0	0	2
MLT 294 Medical Lab Practicum-Hematology and Urinalysis	2	0	0	6	6
MLT 295 Medical Lab Practicum-Microbiology	2	0	0	6	6
MLT 296 Medical Lab Practicum-Immunohematology	2	0	0	6	6
MLT 297 Medical Lab Practicum-Chemistry and Immunology	2	0	0	6	6
<b>Semester Total</b>	<b>10</b>	<b>2</b>	<b>0</b>	<b>24</b>	<b>26</b>

#### Program Totals

**Credit Hours: 70**

**Total Contact Hours: 1740 (116 x 15)**

**General Education Hours: 25**

**MLT Hours: 45**

### Estimated Program Tuition, Fees, and Expenses for the MLT Program

Listed below are estimated costs for the MLT Program. The amounts listed below are subject to change.

Uniforms	Two-Years
2 pair of closed toe shoes	\$100.00
Lab coat (SSCC monogrammed)	\$32.00
2 uniforms (SSCC monogrammed scrubs)	\$100.00
<b>Subtotal</b>	<b>\$232.00</b>
Tuition, instruction fees (70 Credit Hours)	For resident \$10,640.00 For Non-resident \$19,950.00
Textbooks (Estimate for required textbooks only. The recommended textbooks are NOT included.)	\$1000.00
BOC Interactive Practice Exam Interactive study for the MLS & MLT Certification Exams (Bundle)	\$150.00
Med training subscription	\$50.00
Media Lab subscription	\$150.00
Trajecsyst Online Tracking Reporting System	\$100.00
Accident and Liability Insurance	\$40.00
Preclinical Screening/Background	\$66.00

Check/Compliance	
BOC Certification *National Certification subject to change. Please check the appropriate certification body fees.	\$215.00
Student Membership (Optional) American Society for Clinical Pathology American (ASCP), American Society for Clinical Laboratory Science (ASCLS), and Medical Laboratory Observer (MLO)	Free
Cap and gown for Graduation (Optional)	\$40 .00
<b>Subtotal</b>	<b>For Resident \$12,451.00 For Non-Resident \$21,761.00</b>
<b>Total Approximate Cost for SSCC MLT Program</b>	<b>For Resident \$12,683.00 For Non-Resident \$21,993.00</b>

### Policies for the Medical Laboratory Technician Program

#### **Grading Policy and Academic Standards**

The MLT Program records student achievement using a letter grade system. To facilitate the completion of grade averages, a grade point value is placed on the letter grade. The following table gives the letters used, the meaning, and the corresponding grade-point values. See the individual course syllabus in the Canvas Learning Management System for further specific grading information.

**A. Clinical Rotation/Laboratory:** A student who fails to meet a grade/evaluation of satisfactory in the Clinical Rotation and Laboratory component of an MLT course will receive an "F" for that course regardless of the grade in the theory component.

**B. Theory:** No rounding of test scores will be done. (Example: 78.6 is 78.6.) Only the final grade is rounded. For example, 0.5 or higher will be raised to the next whole number.

#### **Grade Scale for All MLT Courses**

A = 90 – 100 = Excellent

B = 80 – 89 = Good

**C = 75 – 79 = Average\***

D = 60 – 74 = Poor = Failure in MLT Program

F = 59 and below = Failure in MLT Program

\*A minimum letter grade of C (75) is required in all health services courses in order to pass and progress in the MLT Program.

#### **Progression Policy**

1. A student must achieve a minimum grade of **C (75)** or above in every MLT course.
2. MLT courses are designed to be taught sequentially. **A student must have a minimum final grade of 75 in every course in a given term of work to proceed to the courses taught in the next term.**
3. Students will be tracked and advised related to academic progress. A plan for success will be developed when deficiencies are noted. The plan will be placed in the student's file.
4. If a student makes a final grade below 75 in any MLT course in a given term, the student cannot proceed to the courses taught in the next term and will be withdrawn from the program.
5. The student may apply for readmission to the program; acceptance is conditional upon the following:
  - a. completion of admission application

- b. fulfillment of readmission criteria
  - c. space availability in the next class
  - d. one prior admission only
6. After readmission, if the student does not achieve the minimum 75 final grade in the second attempt of the same MLT course or fails to achieve the minimum 75 in any other MLT course, the student will be withdrawn from the program. The student may seek admission as a new student after a period of one year.
  7. A student absent from the MLT course sequence for more than two semesters must apply as a new student.
  8. A student will not be readmitted to the MLT Program more than once.

### **Student Health and Health-Related Policies**

Because participation in clinical rotation/laboratory instruction is an integral part of the MLT curriculum, **each student is required to comply with all policies and procedures of the contracted agencies and the MLT program.** Therefore, each student is expected to uphold the contractual terms upon being admitted to the MLT program. All costs/expenses associated with meeting the health and general policy requirements of the MLT program are the student's responsibility. All students must adhere to the following policies and procedures upon acceptance to the MLT program:

1. Submit a completed health form from a certified medical health care provider.
2. Submit proof of vaccinations, including the following: Hepatitis B series or evidence of immunity; MMR (German Measles, Mumps, Rubella) if born after 1957 or evidence of immunity; Varicella immunity (immunization record or titer); Tetanus vaccination; TB skin test or QuantiFERON Gold TB Blood Test; Flu vaccine or declination form.
3. Purchase liability and accident insurance through the College.
4. Complete a preclinical drug screen. The student must have a negative screen before a clinical rotation agency assignment. The complete drug screen policy is located in the MLT Student Handbook.
5. Complete a background check before assignment to clinical facility rotations. All students must sign a release form for permission to perform a background check as required by federal law. The student must abide by the MLT program's Background Check Policy and clinical facility agency policy for which the student is assigned. Every effort is made to provide students with the required clinical rotation to meet program goals and outcomes. Any student denied access by an affiliate is subject to dismissal from the program.

### **Essential Functions**

The Alabama College System and SSCC endorse the Americans with Disabilities Act. Per College policy, when requested, reasonable accommodations may be provided for individuals with disabilities. Physical, cognitive, psychomotor, affective, and social abilities are required in unique combinations to perform safe and effective medical laboratory technician procedures. The applicant/student must be able to meet the essential function standards with or without reasonable accommodations throughout the program of learning. Admission, progression, and graduation are contingent upon one's ability to demonstrate the essential functions delineated for the Medical Laboratory Technician program with or without reasonable accommodations. The student may request disability accommodations in writing to the Office of Specialized Student Services, located on the second floor of the Martin Campus. Any reasonable accommodations made by the MLT Program must originate from the Office of Specialized Student Services.

**Note: Medical Laboratory Technician Program information, policies, and curriculum are subject to change without prior notice due to accrediting agency requirements.**

**Program Location and Contact Information:**

Location:

Shelton State Community College  
C. A. Fredd Campus, Building 500  
3401 Martin Luther King, Jr. Boulevard  
Tuscaloosa, Alabama 35401

Staff:

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