

# Medical Laboratory Technology Program

## General Information

### Program Objective

The objective of the Medical Laboratory Technology Program is to prepare students for immediate employment as a Medical Laboratory Technician. Upon completion of the program, students will receive an Associate in Applied Science in Medical Laboratory Technology and be eligible to take the ASCP Board of Certification MLT Exam.

ASCP certified Medical Laboratory Technicians may qualify to take the Medical Laboratory Scientist exam after completing a B.S. and two subsequent years of full-time work experience or by completing a B.S. in Medical Laboratory Science from a NAACLS accredited program.

### Program Location

The Medical Laboratory Technology (MLT) Program is the result of a collaborative partnership between Seminole State College and Gordon Cooper Technology Center (GCTC). Students complete general education requirements and technical-occupational support requirements primarily on the SSC campus. MLT lecture/lab courses are completed at the Shawnee campus of GCTC. Practicum courses are completed at an assigned affiliate hospital.

### Program Accreditation

Seminole State College's Medical Laboratory Technology Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Questions may be directed to NAACLS, 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119. Phone: 773-714-8886.

### Majoring in Medical Laboratory Technology

Selecting medical laboratory technology as a major is open to all SSC students and can be accomplished through an advisor just like any other SSC major field of study. However, formal admission to the program is a more rigorous and competitive process as describe in the next section.

### MLT Program Admission Requirements

1. High School graduation or G.E.D.
2. Acceptance to Seminole State College.
3. Completion of MLT 1402 Medical Laboratory Technology Orientation.
4. GPA of 2.0 and "C" or better in all required courses.
5. ACT Composite score of 19 (Taken within past 5 years).
6. ACT Reading score of 19 (Taken within the past 5 years).
7. Interview with MLT Program Director.
8. Completion of MLT Admission Packet (obtained during MLT Orientation Course)
9. Submit required and complete immunization records.
10. Completion of background check in accordance with state and federal requirements.

### Suggested Plan of Study

*Below is a suggested schedule of course study. Each individual's progress will vary depending on their academic background and prerequisite courses required. It is essential that students consult the MLT Program Director prior to enrolling each semester.*

#### First Year/Fall Semester

CHEM	1315	General Chemistry I	5
ENG	1113	Composition I	3
MATH	1523	Pre-Calculus for Business and Biology <u>or</u>	3
MATH	1503	Elementary Statistics	3
MLT	1402	MLT Orientation	2
SOC or PSY		Elective	3
SOC	1101	Freshman Seminar	<u>1</u>
			<b>17</b>

#### First Year/Spring Semester

BIOL	2114	Human Anatomy <u>or</u>	
BIOL	2214	Human Physiology	4
BIOL	2224	Microbiology	4
ENG	1213	Composition II	3
GOV	1113	American National Government	3
HIST	1483	American History Survey to 1877 <u>or</u>	
HIST	1493	American History Survey since 1877	<u>3</u>
			<b>17</b>

#### Second Year/Fall Semester

MLT	1412	Urinalysis/Body Fluids	2
MLT	1523	Instrumental Chemical Analysis	3
MLT	2455	Clinical Chemistry	5
MLT	2462	Mycology/Parasitology	<u>2</u>
			<b>12</b>

#### Second Year/Spring Semester

MLT	1515	Hematology	5
MLT	2101	MLT Capstone Seminar	1
MLT	2434	Immunology/Blood Bank	4
MLT	2564	Clinical Microbiology	<u>4</u>
			<b>14</b>

#### Second Year/Summer Semester (16 weeks)

MLT	2413	Hematology Clinical Practicum I*	3
MLT	2423	Chemistry Clinical Practicum II*	3
MLT	2433	Microbiology Clinical Practicum III*	3
MLT	2443	Blood Banking Clinical Practicum IV*	<u>3</u>
			<b>12</b>

### Total Program Hours

**72**

\*All four clinical rotations must be taken in the same semester. The semester in which the student enrolls will depend upon completion of all academic courses and availability of space in affiliated hospital laboratories. **It is essential that students consult with the MLT Program Director prior to enrolling each semester.** Note: BIOL 1214 or BIOL 1234 is recommended for MLT Program students.

# Medical Laboratory Technology Associate in Applied Science

**Program Objective**

The objective of the Medical Laboratory Technology Associate in Applied Science is to prepare students to enter the workforce as a medical laboratory technician.

**Admission Requirements**

1. High School graduation or G.E.D.
2. Acceptance to Seminole State College.
3. Completion of MLT 1402 MLT Orientation.
4. GPA of 2.0 and "C" or better in all required courses.
5. ACT Composite score of 19 (Taken within past 5 years).
6. ACT Reading score of 19 (Taken within the past 5 years).
7. Interview with MLT Program Director.
8. Completion of MLT Admission Packet (obtained during MLT Orientation Course)
9. Submit required and complete immunization records.
10. Completion of background check in accordance with state and federal requirements.

**Graduation Requirements**

1. At least seventy-two designated semester credit hours.
2. Grade of "C" or better required in all courses.
3. Grade Point Average of 2.0 or better.
4. Fifteen semester credit hours in attendance at SSC.
5. Completion of Graduate Exit Survey.

**Please Note:** Students who begin an Associate in Applied Science degree program are permitted to change to a transfer degree program should their goals change to include the pursuit of a four-year degree upon graduation from Seminole State.

**For Information Contact:**

Medical Laboratory Technology  
Program Director (405) 273-7493, ext. 2278

**General Education Requirements ..... 19**

GOV 1113	American National Government ..... 3
HIST 1483	American History Survey to 1877 <b>or</b>
HIST 1493	American History Survey since 1877..... 3
ENG 1113	Composition I ..... 3
ENG 1213	Composition II ..... 3
MATH 1523	Pre-Calculus for Business and Biology <b>or</b>
MATH 1503	Elementary Statistics..... 3
SOC 1101	Freshman Seminar (or STSC 1002) ..... 1
ELECTIVE	SOC or PSY ..... 3

**Technical-Occupational Requirements ..... 40**

*With exception of MLT 1402, enrollment in the MLT courses below requires formal admission to the SSC Medical Laboratory Program:*

MLT 1402	MLT Orientation
MLT 1412	Urinalysis/Body Fluids
MLT 1515	Hematology
MLT 1523	Instrumental Chemical Analysis
MLT 2101	MLT Capstone Seminar
MLT 2413	Hematology Clinical Practicum I*
MLT 2423	Chemistry Clinical Practicum II*
MLT 2433	Microbiology Clinical Practicum III*
MLT 2434	Immunology/Blood Bank
MLT 2443	Blood Banking Clinical Practicum IV*
MLT 2455	Clinical Chemistry
MLT 2462	Mycology/Parasitology
MLT 2564	Clinical Microbiology

\*All four clinical rotations must be taken in the same semester. The semester in which the student enrolls will depend upon completion of all prerequisite courses and availability of space in affiliated hospital laboratories. **It is essential that students consult with the MLT Program Director prior to enrolling each semester.** Note: BIOL 1214 or BIOL 1234 is recommended for MLT Program students.

**Technical-Occupational Support Requirements ..... 13**

BIOL 2114	Human Anatomy <b>or</b> BIOL 2214 Human Physiology
BIOL 2224	Microbiology
CHEM 1315	General Chemistry I

**MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE ..... 72**

<b>Recommended First-Year Courses for SSC Medical Laboratory Technology Program Applicants</b>		
<b>First Year/Fall Semester</b>		
ENG 1113	Composition I ..... 3	
CHEM 1315	General Chemistry I..... 5	
MATH 1523	Pre-Calculus for Business and Biology <b>or</b>	
MATH 1503	Elementary Statistics ..... 3	
MLT 1402	MLT Orientation..... 2	
SOC 1101	Freshman Seminar ..... 1	
PSY 1113	General Psychology <b>or</b>	
SOC 1113	Introduction to Sociology ..... 3	
	<b>17</b>	
<b>First Year/Spring Semester</b>		
BIOL 2114	Human Anatomy <b>or</b>	
BIOL 2214	Human Physiology ..... 4	
BIOL 2224	Microbiology ..... 4	
ENG 1213	Composition II..... 3	
GOV 1113	American National Government ..... 3	
HIST 1483	American History Survey to 1877 <b>or</b>	
HIST 1493	American History Survey since 1877 ..... 3	
	<b>17</b>	