

# 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 Bus-Biol <b>or</b>	
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 <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	<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

**Degree Program Mentor**

For additional information regarding this degree, contact the Degree Program Mentor.



**Malinda Browning**

Program Director/Associate Professor  
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 Division Office: 405-382-9205

**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.

**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 Bus-Biol <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>



# Medical Laboratory Technology- Associate in Applied Science

## Degree Requirements Checklist

2017-18

6 hrs.	<b>GENERAL EDUCATION REQUIREMENTS</b> Social Sciences <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 <b>or</b> <input type="checkbox"/> HIST 1493 American History Survey since 1877	13 hrs.	<b>TECHNICAL OCCUPATIONAL SUPPORT REQUIREMENTS</b> <input type="checkbox"/> BIOL 2114 Human Anatomy <b>or</b> <input type="checkbox"/> BIOL 2214 Human Physiology <input type="checkbox"/> BIOL 2224 Microbiology <input type="checkbox"/> CHEM 1315 General Chemistry I*
6 hrs.	Language Arts <input type="checkbox"/> ENG 1113 Principles of English Composition I <input type="checkbox"/> ENG 1213 Principles of English Composition II	40 hrs.	<b>TECHNICAL OCCUPATIONAL REQUIREMENTS</b> <i>With the exception of MLT 1402, enrollment in the MLT courses below requires formal admission to the SSC Medical Laboratory Program:</i>
3 hrs.	Mathematics <input type="checkbox"/> MATH 1523 Pre-Calculus for Bus-Biol <b>or</b> <input type="checkbox"/> MATH 1503 Elementary Statistics		<input type="checkbox"/> MLT 1402 MLT Orientation <input type="checkbox"/> MLT 1412 Urinalysis/Body Fluids <input type="checkbox"/> MLT 1515 Hematology <input type="checkbox"/> MLT 1523 Instrumental Chemical Analysis <input type="checkbox"/> MLT 2101 MLT Capstone Seminar <input type="checkbox"/> MLT 2413 Hematology Clinical Practicum I* <input type="checkbox"/> MLT 2423 Chemistry Clinical Practicum II* <input type="checkbox"/> MLT 2433 Microbiology Clinical Practicum III* <input type="checkbox"/> MLT 2434 Immunology/Blood Bank <input type="checkbox"/> MLT 2443 Blood Banking Clinical Practicum IV* <input type="checkbox"/> MLT 2455 Clinical Chemistry <input type="checkbox"/> MLT 2462 Mycology/Parasitology <input type="checkbox"/> MLT 2564 Clinical Microbiology
3 hrs.	Behavioral or Social Sciences Elective <input type="checkbox"/> PSY or SOC		
1 hr.	Student Success Required during first semester <input type="checkbox"/> SOC 1101 Freshman Seminar (or STSC 1002)		
19 hrs.	<b>TOTAL REQUIRED GENERAL EDUCATION HOURS</b>		
		53 hrs.	<b>TOTAL REQUIRED MAJOR FIELD HOURS</b>
		72 hrs.	<b>TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE</b>

\*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.

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