

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 National Accrediting Agency for Clinical Laboratory Sciences (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	Functions and Modeling or	
MATH	1513	Pre-Calculus for Eng-Phys-CS	3
MLT	1402	MLT Orientation	2
SOC or PSY		Elective	3
STSC	1002	Learning Strategies	<u>2</u>
			18

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>
			17

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>
			12

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>
			14

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>
			12

Total Program Hours

73

Plus Additional 160 (640 total) Required Clinical Hours performed in each of the following:

- MLT 2413 Hematology Clinical Practicum,
- MLT 2423 Chemistry Clinical Practicum,
- MLT 2433 Microbiology Clinical Practicum,
- MLT 2443 Blood Banking Clinical Practicum

*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.



Kelly Hankal

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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-three 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 20

GOV 1113	American National Government 3
HIST 1483	American History Survey to 1877 or
HIST 1493	American History Survey since 1877..... 3
ENG 1113	Composition I 3
ENG 1213	Composition II 3
MATH 1523	Functions and Modeling or
MATH 1513	Pre-Calculus for Eng-Phys-CS..... 3
STSC 1002	Learning Strategies 2
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 or BIOL 2214 Human Physiology
BIOL 2224	Microbiology
CHEM 1315	General Chemistry I

MINIMUM TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE 73

Recommended First-Year Courses for SSC Medical Laboratory Technology Program Applicants		
First Year/Fall Semester		
ENG 1113	Composition I.....	3
CHEM 1315	General Chemistry I.....	5
MATH 1523	Functions and Modeling or	
MATH 1513	Pre-Calculus for Eng-Phys-CS.....	3
MLT 1402	MLT Orientation.....	2
STSC 1002	Learning Strategies.....	2
PSY 1113	General Psychology or	
SOC 1113	Introduction to Sociology.....	3
		18
First Year/Spring Semester		
BIOL 2114	Human Anatomy or	
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 or	
HIST 1493	American History Survey since 1877.....	3
		17



Medical Laboratory Technology- Associate in Applied Science

Degree Requirements Checklist

2024-25

6 hrs.	GENERAL EDUCATION REQUIREMENTS Social Sciences <input type="checkbox"/> GOV 1113 American National Government <input type="checkbox"/> HIST 1483 American History Survey to 1877 or <input type="checkbox"/> HIST 1493 American History Survey since 1877	13 hrs.	TECHNICAL OCCUPATIONAL SUPPORT REQUIREMENTS <input type="checkbox"/> BIOL 2114 Human Anatomy or <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.	TECHNICAL OCCUPATIONAL REQUIREMENTS <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 Functions and Modeling OR <input type="checkbox"/> MATH 1535 Pre-Calculus for Eng-Phys-CS		<input type="checkbox"/> MLT 1402 MLT Orientation
3 hrs.	Behavioral or Social Sciences Elective <input type="checkbox"/> PSY or SOC		<input type="checkbox"/> MLT 1412 Urinalysis/Body Fluids <input type="checkbox"/> MLT 1515 Hematology
1 hr.	Student Success Required during first semester <input type="checkbox"/> STSC 1002 Learning Strategies		<input type="checkbox"/> MLT 1523 Instrumental Chemical Analysis
20 hrs.	TOTAL REQUIRED GENERAL EDUCATION HOURS		<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
		53 hrs.	<p>*All four clinical rotations must be taken in the same semester. The semester in which the student enrolls will depend upon completion of <u>all</u> 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.</p> TOTAL REQUIRED MAJOR FIELD HOURS
		73 hrs.	TOTAL HOURS REQUIRED FOR ASSOCIATE DEGREE

revised 1/2024