



Medical Laboratory Technology (MLT) - 81 Credits

Associate of Applied Science (AAS)

College of Health Professions

ADMISSION REQUIREMENTS TO THE UNIVERSITY

New Students

- Must have a 2.5 high school GPA
- 17 ACT or 900 SAT

Transfer Students

- Must have a 2.0 GPA

ADMISSION REQUIREMENTS TO THE PROFESSIONAL SEQUENCE

New Students:

- Must be admitted to the University.
- Must have earned a minimum grade of "C" or higher in the following" MATH 115 or 117, CHEM 114, CHEM 214, BIOL 205, BIOL 108 or BIOL 286
- Must have a 2.5 GPA
- All MATH, BIOL, and CHEM courses must meet the above requirements within two attempts. A withdrawal, W grade counts as an attempt.

Transfer Students:

- Must be admitted to the University.
- Must have earned a minimum grade of "C" or higher in the following" MATH 115 or 117, CHEM 114, CHEM 214, BIOL 205, BIOL 108 or BIOL 286
- Must have a 2.5 GPA
- All MATH, BIOL, and CHEM courses must meet the above requirements within two attempts. A withdrawal, W grade counts as an attempt.

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

Courses in this section are required to satisfy the university general education requirements for an AAS degree.

Prefix	###	Course Title (Prerequisites shown in parenthesis)	Crs
TIER 1: FOUNDATION COMPETENCIES			
COMMUNICATION COMPETENCY – 6 Written Communication Credits Required (or their equivalent)			
ENGL	150	English 1 (ENGL 074 or ACT English 14 or SAT ERW 450 or pre2016 SAT Writing 370 or TOEFL Internet Total Score 61 or MSU-ELT Composite 73 or IELTS Overall 5.5)	3
ENGL	250	English 2 (ENGL 150 w/C- or higher)	3

QUANTITATIVE LITERACY COMPETENCY – 3 Credits Required

CHOOSE ONE	MATH 117	Contemporary Mathematics (<i>Recommended</i>) (MATH 109 or 110 w/C- or higher, or ACT Math 19 or SAT Math 500)	4
	MATH 115	Intermediate Algebra (MATH 109 or 110 w/C- or higher, or ACT Math 19 or SAT Math 500)	3

TIER 2: DISTRIBUTION COMPETENCIES

NATURAL SCIENCES COMPETENCY – 1 course w/lab Required

This requirement is met in the program major.

CULTURE COMPETENCY – 1 course with a minimum of 3 Credits Required

ELEC

SELF AND SOCIETY COMPETENCY – 1 course with a minimum of 3 Credits Required

ELEC

ADDITIONAL GENERAL EDUCATION REQUIREMENTS

The courses below are additional general education courses to meet the requirements for this specific program.

CHOOSE ONE	COMM 105	Interpersonal Communication (None)	3
	COMM 121	Fundamentals of Public Speaking (None)	
	COMM 221	Small Group Decision Making (<i>Recommended</i>) (None)	

Freshman Seminar Requirement, FSUS 100, is satisfied by:

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Prefix	###	Course Title (Prerequisites shown in parenthesis)	Crs
QUALIFYING COURSES FOR ENTRY INTO THE MLT PROGRAM (Grade of C or higher) - 19 Credits Required			
CHOOSE ONE	MATH 117	Contemporary Mathematics (<i>Recommended</i>) (MATH 109 or 110 w/C- or higher, or ACT Math 19 or SAT Math 500)	3-4
	MATH 115	Intermediate Algebra (MATH 109 or 110 w/C- or higher, or ACT Math 19 or SAT Math 500)	
BIOL	108	Medical Microbiology (None)	3
BIOL	205	Human Anatomy and Physiology (CHEM 114 or 121 w/C- or higher)	5
CHEM	114	Introduction to General Chemistry (CHEM 103 w/ C- or higher and (MATH 110 w/C- or higher, or ACT Math 19 or SAT Math 500))	4
CHEM	214	Fundamentals of Organic Chemistry (CHEM 114 or 121 w/C- or higher)	4
MAJOR REQUIREMENTS – 42 Credits Required			
CLLS	101	Clinical Laboratory Science Orientation	1
CLLS	122	Introduction to Specimen Collection (co-requisite: CLLS 123)	2
CLLS	123	Specimen Collection Laboratory (co-requisite: CLLS 122)	1
CLLS	216	Clinical Chemistry (BIOL 205 and CHEM 214 w/C or higher) (co-requisite: CLLS 217)	3
CLLS	217	Clinical Chemistry Laboratory (BIOL 205 and CHEM 214 w/C or higher) (co-requisite: CLLS 216)	1
CLLS	218	Body Fluid Analysis (BIOL 205 w/C or higher) (co-requisite: CLLS 219 and 220)	1
CLLS	219	Hemostasis (BIOL 205 w/C or higher) (co-requisite: CLLS 218 and 220)	1
CLLS	220	Body-Fluid Hemostasis Laboratory (BIOL 205 w/C or higher) (co-requisite: CLLS 218 and 219)	1
CLLS	231	Hematology (BIOL 205 and CHEM 214 w/C or higher) (co-requisite: CLLS 232)	2
CLLS	232	Hematology Laboratory (BIOL 205 and CHEM 214 w/C or higher) (co-requisite: CLLS 231)	1
CLLS	236	Diagnostic Microbiology ((BIOL 108 or 286 w/C or higher) and BIOL 205, and CHEM 214 w/C or higher) (co-requisite: CLLS 237)	2
CLLS	237	Diagnostic Microbiology Laboratory ((BIOL 108 or 286 w/C or higher) and BIOL 205, and CHEM 214 w/C or higher) (co-requisite: CLLS 236)	2
CLLS	241	Medical Virology/Mycology/Parasitology (BIOL 108 or 286 w/C or higher) (co-requisite: CLLS 242)	2
CLLS	242	Medical Virology/Mycology/Parasitology Laboratory (BIOL 108 or 286 w/C or higher) (co-requisite: CLLS 241)	1
CLLS	252	Introduction to Clinical Immunology (BIOL 205 w/C or higher) (co-requisite: CLLS 253)	2
CLLS	253	Introduction to Clinical Immunology Laboratory (BIOL 25 w/C or higher) (co-requisite: CLLS 252)	1
CLLS	256	Simulated Laboratory for MLT (CLLS 216, 217, 218, 219, 220, 231, 232, 236, 237, 252, 253, 258, and 259 w/C or higher)	3
CLLS	258	Immunohematology (BIOL 205 w/C or higher) (co-requisite: CLLS 259)	2
CLLS	259	Immunohematology Laboratory (BIOL 205 w/C or higher) (co-requisite: CLLS 258)	1
CLLS	281	Clinical Laboratory Science Theory for MLT (CLLS 256 w/C or higher)	1
CLLS	292	Clinical Experience 1 for MLT (CLLS 256 w/C or higher)	6
CLLS	293	Clinical Experience 2 for MLT (CLLS 292 w/C or higher)	5
CORE CURRICULUM – 5 Credits Required			
COHP	100	Orientation to Medical Vocabulary (None)	1
COHP	101	The U.S. Health Care Systems (None)	3
COHP	102	Safety Issues in Health Care (None)	1

ADDITIONAL GRADUATION REQUIREMENTS

Students must

- maintain a 2.50 cumulative FSU GPA
- have 15 credits of Ferris classes (FSU Residency requirement)
- have a minimum 60 total credits to earn an associate degree

ADDITIONAL PROGRAM REQUIREMENTS

Students must

- Complete BIOL 108, BIOL 205, CHEM 214, all CLLS courses, and all COHP courses with a grade of C or higher.
- If a student earns less than a C in any CLLS course, he/she will be required to repeat that course when there is a seat available.
- A student may repeat a maximum of 3 credits of CLLS courses. Earning less than a C in courses totaling 4 or more credits will result in a student's being denied from progressing further in the CLS program. Failing to earn a C or higher in the same course after two (2) attempts will result in the student's being denied from progressing further in the CLS program. An attempt is defined as enrollment in the course one week or longer.
- Students in the MLT program must complete the professional phase within 3 years of beginning. If a student cannot complete the program within the stipulated time, he/she will be required to reapply to the professional phase of the program.
- No student will be allowed to enter the clinical experience or graduate from the program with less than a 2.50 cumulative GPA or with a grade of less than C in any of the required courses.

Medical Laboratory Technology – Associate of Applied Science - 81 Credits**DEGREE OUTCOMES**

1.	Graduates will communicate effectively to acquire/develop/convey ideas & information to diverse populations.
2.	Graduates will utilize the knowledge/professional competencies to practice as an entry-level MLT.
3.	Graduates will apply previously learned knowledge to the solution of new problems.
4.	Graduates will demonstrate professional and ethical behaviors.

Semester-by-Semester layout of classes**FIRST YEAR****Fall Semester**

Class	Credits
BIOL 108	3
CHEM 114	4
CLLS 101	1
ENGL 150	3
MATH 117	4
COHP 100	1
Total Credits	16

Spring Semester

Class	Credits
BIOL 205	5
CHEM 214	4
CLLS 122/123	3
COMM 221	3
COHP 102	1
Total Credits	16

Summer Semester

Class	Credits
CLLS 216/217	4
CLLS 218/219/220	3
CLLS 252/253	3
Self & Society Elec.	3
Total Credits	13

SECOND YEAR**Fall Semester**

Class	Credits
CLLS 231/232	3
CLLS 236/237	4
CLLS 258/259	3
ENGL 250	3
Culture Elec.	3
Total Credits	16

Spring Semester

Class	Credits
COHP 101	3
CLLS 241/242	3
CLLS 256	3
CLLS 292	6
Total Credits	15

Summer Semester

Class	Credits
CLLS 281	1
CLLS 293	5
Total Credits	6