



2015-2016 PETITION/PROGRAM SHEET

Degree: Associate of Applied Science
Major: Medical Laboratory Technician

About This Major . . .

The Medical Laboratory Technician (MLT) Program at Colorado Mesa University is five semesters in length. Essential Learning requirements and foundation courses are taken the first year and summer, the second year consists mainly of MLT program courses, followed by one semester of clinical internship at an affiliated site in western Colorado.

The majority of MLT courses are delivered in a blended format. Lecture is delivered online with lab sessions held on campus. All MLT courses are taken concurrently for each semester offered and in sequence.

The student will receive an Associate of Applied Science degree upon successful completion of the program. The graduate is then eligible to take the Medical Laboratory Technician national certification exam through the American Society for Clinical Pathology (ASCP). A passing score on the ASCP exam will allow the student to use the credentials of MLT (ASCP)CM after their name.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

- 1. Demonstrate the theoretical knowledge and technical skills in the performance of routine laboratory testing. (Specialized Knowledge/Applied Learning)
2. Demonstrate error recognition and the ability to integrate and interpret analytical data and establish a course of action to solve problems. (Critical Thinking)
3. Communicate courteously and effectively with laboratory personnel, other health care professionals, patients and the public. (Communication Fluency)
4. Apply mathematical calculations and statistical methods to ensure the accuracy of laboratory test results. (Quantitative Fluency)
5. Demonstrate laboratory practice standards in safety, professional behavior and ethical conduct. (Specialized Knowledge/Applied Learning)

NAME: \_\_\_\_\_ STUDENT ID #: \_\_\_\_\_

LOCAL ADDRESS AND PHONE NUMBER: \_\_\_\_\_
\_\_\_\_\_ ( ) \_\_\_\_\_

I, (Signature) \_\_\_\_\_, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

Signature of Advisor \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_

Signature of Department Head \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_

Signature of Registrar \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_

**DEGREE REQUIREMENTS:**

- 75 hours total (A minimum of 15 of the final 30 semester hours of credit at CMU)
- 2.00 cumulative GPA or higher in all CMU coursework
- A grade of "C" or higher must be achieved in coursework toward major content area.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head. Courses related to teacher licensure must also be approved by the Teacher Education Dept.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

**ESSENTIAL LEARNING REQUIREMENTS** (Minimum 15 semester hours) See the current catalog for a list of courses that fulfill the requirements below. If a course is on the Essential Learning list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the Essential Learning requirement. The Essential Learning capstone course and co-requisite Essential Speech course (required for bachelor's degrees) cannot be used as options for the below requirements.

Course No	Title	Sem.hrs	Grade	Term
<b>Communication</b> (6 semester hours)				
ENGL 111	English Composition	3	_____	_____
ENGL 112*	English Composition	3	_____	_____
<b>Math</b> (Minimum 3 semester hours)				
MATH 113*	College Algebra or Higher	4	_____	_____
<b>Social Sciences, Natural Science, Fine Arts, or Humanities</b> (Minimum 6 semester hours)				
_____	_____	3	_____	_____
_____	_____	3	_____	_____
<b>WELLNESS REQUIREMENT</b> (2 semester hours)				
KINE 100	Health and Wellness	1	_____	_____
KINA 1	_____	1	_____	_____

\*Required by this program

The following applied courses must be completed with a grade of "B" or higher: MLTP 102, MLTP 180, MLTP 182, MLTP 250, and MLTP 252.

Course No Title Sem.hrs Grade Term

**ASSOCIATE OF APPLIED SCIENCE IN MEDICAL LABORATORY TECHNICIAN: COURSE REQUIREMENTS**  
(57 semester hours)

Course No	Title	Sem.hrs	Grade	Term
<b>Didactic Courses</b> (41 semester hours)				
BIOL 209	Anatomy & Physiology	3	_____	_____
BIOL 209L	Anatomy & Physiology Lab	1	_____	_____
CHEM 121	Principles of Chemistry	4	_____	_____
CHEM 121L	Principles of Chemistry Lab	1	_____	_____
Or				
CHEM 131	General Chemistry	4	_____	_____
CHEM 131L	General Chemistry Lab	1	_____	_____
BIOL 210	Anatomy & Physiology II	3	_____	_____
BIOL 210L	Anatomy & Physiology II Lab	1	_____	_____
MLTP 101	Phlebotomy	3	_____	_____
MLTP 132	Clinical Hematology/ Coagulation	3	_____	_____
MLTP 132L	Clinical Hematology/ Coagulation Lab	1	_____	_____
MLTP 138	Clinical Immunology	2	_____	_____
MLTP 138L	Clinical Immunology Lab	1	_____	_____
MLTP 141	Clinical Immunohematology	2	_____	_____
MLTP 141L	Clinical Immunohematology Lab	1	_____	_____
MLTP 142	Clinical Microscopy	2	_____	_____
MLTP 142L	Clinical Microscopy Lab	1	_____	_____
MLTP 231	Clinical Microbiology I	3	_____	_____
MLTP 231L	Clinical Microbiology I Lab	1	_____	_____
MLTP 232	Clinical Microbiology II	3	_____	_____
MLTP 242	Clinical Chemistry	3	_____	_____
MLTP 242L	Clinical Chemistry Lab	1	_____	_____
MLTP 275	Capstone Seminar	1	_____	_____

**Applied Courses** (16 semester hours)  
These courses may only be taken by Program Director Approval.

MLTP 102	Applied Phlebotomy	2	_____	_____
MLTP 180	Applied Immunohematology	3	_____	_____
MLTP 182	Applied Hematology and Body Fluids	4	_____	_____
MLTP 250	Applied Chemistry and Serology	2	_____	_____
MLTP 252	Applied Microbiology	4	_____	_____
MLTP 253	Certification Exam Review	1	_____	_____

## SUGGESTED COURSE SEQUENCING FOR A MAJOR IN MEDICAL LABORATORY TECHNICIAN

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

### FIRST YEAR

Fall Semester	Hours	Spring Semester	Hours
ENGL 111	English Composition	CHEM 121	Principles of Chemistry
MATH 113	College Algebra or Higher	CHEM 121L	Principles of Chemistry Lab
KINE 100	Health and Wellness	<b>OR</b> CHEM 131	General Chemistry
KINA	Activity Course	CHEM 131L	General Chemistry Lab
BIOL 209	Anatomy and Physiology	BIOL 210	Anatomy and Physiology II
BIOL 209L	Anatomy and Physiology	BIOL 210L	Anatomy and Physiology II Lab
	13	MLTP 101	Phlebotomy
		MLTP 102	Applied Phlebotomy
			14

Summer Semester	Hours
ENGL 112	English Composition
Essential Learning	<u>3</u>
	6

### SECOND YEAR

Fall Semester	Hours	Spring Semester	Hours
Essential Learning	3	MLTP 132	Clinical Hematology/Hemostasis
MLTP 138	Clinical Immunology	MLTP 132L	Clinical Hematology/Hemostasis Lab
MLTP 138L	Clinical Immunology Lab	MLTP 141	Clinical Immunohematology
MLTP 142	Clinical Microscopy	MLTP 141L	Clinical Immunohematology Lab
MLTP 142L	Clinical Microscopy Lab	MLTP 232	Clinical Microbiology II
MLTP 231	Clinical Microbiology I	MLTP 242	Clinical Chemistry
MLTP 231L	Clinical Microbiology I Lab	MLTP 242L	Clinical Chemistry Lab
	13	MLTP 275	Capstone Seminar
			<u>1</u>
			15

### THIRD YEAR

Fall Semester	Hours
MLTP 182	Applied Heme/Coag/UA
MLTP 250	Applied Chemistry/Serology
MLTP 180	Applied Immunohematology
MLTP 252	Applied Microbiology
MLTP 253	Certification Exam Review
	<u>1</u>
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#### POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.** You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
5. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).