



2018-2019 PROGRAM REQUIREMENTS
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)

Advising Process and DegreeWorks

This document is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at <http://www.coloradomesa.edu/registrar/graduation.html>.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

INSTITUTIONAL DEGREE REQUIREMENTS

The following institutional degree requirements apply to all CMU Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete 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 course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

PROGRAM-SPECIFIC DEGREE REQUIREMENTS

- 75 semester hours total for the AAS, Medical Laboratory Technician.
- A grade of "C" or higher must be achieved in coursework toward major content area.
- 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.

ESSENTIAL LEARNING REQUIREMENTS (16 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Communication (6 semester hours)

- ENGL 111 - English Composition (3)
- ENGL 112 - English Composition (3)

Mathematics (4 semester hours)

- MATH 113 - College Algebra (4) or higher

Other Essential Learning Core Courses (6 semester hours)

- Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course (3)
- Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course (3)

OTHER LOWER-DIVISION REQUIREMENTS

Wellness Requirement (2 semester hours)

- KINE 100 - Health and Wellness (1)
- Select one Activity course (1)

AAS: MEDICAL LABORATORY TECHNICIAN (57 semester hours, must earn a grade of "C" or better in each course unless otherwise noted.)

Didactic Courses (41 semester hours)

- BIOL 209 - Human Anatomy and Physiology (3)
- BIOL 209L - Human Anatomy and Physiology Laboratory (1)
- One of the following options:
 - CHEM 121 - Principles of Chemistry (4) and CHEM 121L - Principles of Chemistry Laboratory (1)
 - CHEM 131 - General Chemistry I (4) and CHEM 131L - General Chemistry I Laboratory (1)
- BIOL 210 - Human Anatomy and Physiology II (3)
- BIOL 210L - Human Anatomy and Physiology II Laboratory (1)
- MLTP 101 - Phlebotomy (3)
- MLTP 132 - Clinical Hematology and Coagulation (3)
- MLTP 132L - Clinical Hematology and Coagulation Laboratory (1)
- MLTP 138 - Clinical Immunology (2)
- MLTP 138L - Clinical Immunology Laboratory (1)
- MLTP 141 - Clinical Immunohematology (2)
- MLTP 141L - Clinical Immunohematology Laboratory (1)
- MLTP 142 - Clinical Microscopy (2)
- MLTP 142L - Clinical Microscopy Laboratory (1)
- MLTP 231 - Clinical Microbiology I (3)
- MLTP 231L - Clinical Microbiology I Laboratory (1)
- MLTP 232 - Clinical Microbiology II (3)
- MLTP 242 - Clinical Chemistry (3)
- MLTP 242L - Clinical Chemistry Laboratory (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)

*Must be completed with a grade of "B" or higher.

SUGGESTED COURSE SEQUENCING

Freshman Year, Fall Semester: 13 credits

- ENGL 111 - English Composition (3)
- MATH 113 - College Algebra (4) or Higher
- KINE 100 - Health and Wellness (1)
- KINA - Activity Course (1)
- BIOL 209 - Human Anatomy and Physiology (3)
- BIOL 209L - Human Anatomy and Physiology Laboratory (1)

Freshman Year, Spring Semester: 14 credits

- CHEM 121 - Principles of Chemistry (4) and CHEM 121L - Principles of Chemistry Laboratory (1) OR CHEM 131 - General Chemistry I (4) and CHEM 131L - General Chemistry I Laboratory (1)
- BIOL 210 - Human Anatomy and Physiology II (3)
- BIOL 210L - Human Anatomy and Physiology II Laboratory (1)
- MLTP 101 - Phlebotomy (3)
- MLTP 102 - Applied Phlebotomy (2)

Freshman Year, Summer Semester: 6 credits

- ENGL 112 - English Composition (3)
 - Essential Learning - Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course (3)
-

Sophomore Year, Fall Semester: 13 credits

- Essential Learning - Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course (3)
- MLTP 138 - Clinical Immunology (2) and MLTP 138L - Clinical Immunology Laboratory (1)
- MLTP 142 - Clinical Microscopy (2) and MLTP 142L - Clinical Microscopy Laboratory (1)
- MLTP 231 - Clinical Microbiology I (3) and MLTP 231L - Clinical Microbiology I Laboratory (1)

Sophomore Year, Spring Semester: 15 credits

- MLTP 132 - Clinical Hematology and Coagulation (3) and MLTP 132L - Clinical Hematology and Coagulation Laboratory (1)
 - MLTP 141 - Clinical Immunohematology (2) and MLTP 141L - Clinical Immunohematology Laboratory (1)
 - MLTP 232 - Clinical Microbiology II (3)
 - MLTP 242 - Clinical Chemistry (3) and MLTP 242L - Clinical Chemistry Laboratory (1)
 - MLTP 275 - Capstone Seminar (1)
-

Junior Year, Fall Semester: 14 credits

- 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)