

CERTIFICATE IN CLINICAL MICROBIOLOGY FOR MEDICAL LABORATORY SCIENCE

The Certificate in Clinical Microbiology for Medical Laboratory Science prepares students with the knowledge and skills of a Medical Laboratory Scientist generalist in the specific area of Clinical Microbiology. Students who complete the certificate will have the skills to work in the Clinical Microbiology field of Medical Laboratory Science and will be eligible to sit for the ASCP national certification examination in the area of Microbiology.

Students pursuing or who hold a BA or BS in Biology will have the foundational coursework that best aligns with the certificate, other STEM majors may need additional prerequisite coursework. Please consult with the MLS program director if you are interested in pursuing this certificate.

Code	Title	Hours
MEDT 4950	Clinical Externship: Management	1
MEDT 4050	Clinical Microbiology I	4
MEDT 4120	Clinical Microbiology II	3
MEDT 4060	Clinical Immunology	3
MEDT 4951	Clinical Externship: Microbiology	4
BIOL 4030 & BIOL 4040	Microbiology and Microbiology Laboratory	4
BIOL 4050 & BIOL 4060	Immunology and Immunology Laboratory	4
Total Hours		23

- 1. Perform routine and complex analytical testing on microorganisms recovered from body fluids or tissue.
- 2. Perform and interpret gram stains on clinical smears.
- 3. Analyze antibiotic sensitivities with appropriate cultures and organisms.
- 4. Identify parasitic organisms from body fluids.
- 5. Correlate data obtained from molecular diagnostic testing with infectious disease processes.
- 6. Evaluate and interpret quality of data to eliminate any pre-analytical, analytical, or post-analytical error.