

# CLINICAL CERTIFICATE IN MICROBIOLOGY

Laboratory Medicine is essential to the practice of healthcare and competent laboratorians are critical to the prevention, diagnosis, treatment, and monitoring of health and disease.

Microbiology Scientists perform testing to identify bacteria, viruses, parasites, and fungi to diagnose and treat infectious disease. Students who complete the Clinical Certificate in Microbiology will immediately be eligible to sit for the American Society of Clinical Pathology (ASCP) Board of Certification (BOC) Microbiology exam through Route 3 eligibility after the conclusion of the program.

The Clinical Certificate in Hematology is offered under the umbrella of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) accredited M.S. in Medical Laboratory Science (MLS) program (<https://www.luc.edu/parkinson/mls/msinmedicallaboratoryscience/>), meeting rigorous standards for quality, education, and innovation. *NAACLS can be contacted at: National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Road, Suite 720 Rosemont, IL 60018; Ph: 773-714-8880; Fax: 773-714-8886; Email: [info@NAACLS.org](mailto:info@NAACLS.org)*

## Related Programs

### Master's

- Clinical Research Methods and Epidemiology (MS) (<https://catalog.luc.edu/graduate-professional/health-sciences/clinical-research-methods-epidemiology-ms/>)
- Clinical and Applied Proteomics (MS) (<https://catalog.luc.edu/graduate-professional/graduate-school/health-sciences/biomedical-sciences/clinical-applied-proteomics-ms/>)

### Certificate

- Clinical Certificate in Hematology (<https://catalog.luc.edu/graduate-professional/health-sciences/clinical-certificate-hematology/>)

## Curriculum

Students begin in the Fall semester and complete the following Summer.

Code	Title	Hours
MLS 401	Laboratory Fundamentals	2
MLS 470	Bacteriology and Virology	5
MLS 475	Clinical Parasitology and Mycology	2
MLS 485	Clinical Practice in Microbiology	3
<b>Total Hours</b>		<b>12</b>

## Suggested Sequence of Courses

Course	Title	Hours
<b>Year One</b>		
<b>Fall</b>		
MLS 401	Laboratory Fundamentals	2
<b>Hours</b>		<b>2</b>
<b>Spring</b>		
MLS 470	Bacteriology and Virology	5
<b>Hours</b>		<b>5</b>

### Summer

MLS 475	Clinical Parasitology and Mycology	2
MLS 485	Clinical Practice in Microbiology	3
<b>Hours</b>		<b>5</b>
<b>Total Hours</b>		<b>12</b>

## Graduate & Professional Standards and Regulations

Students in graduate and professional programs can find their Academic Policies in Graduate and Professional Academic Standards and Regulations (<https://catalog.luc.edu/academic-standards-regulations/graduate-professional/>) under their school. Any additional University Policies supersede school policies.

## Learning Outcomes

Upon successful completion of a clinical Certificate program, students will:

- Apply critical thinking skills to evaluate and interpret clinical data.
- Exhibit oral and written communication skills sufficient to serve the needs of patients and the health care team.
- Demonstrate competency needed to work as a medical scientist in their specific concentration by performing basic and diagnostic laboratory analysis in accordance with established laboratory procedures.