

# Master of Science in Medical Laboratory Science

## Admission Requirements

Applicants who are seeking admission to School of Graduate Studies must meet all of the minimum general School of Graduate Studies admission requirements identified in the graduate catalog. In addition, prospective students must fulfill the following requirements for admission to the graduate program in Medical Laboratory Science. Application deadlines can be found on the MLS or UND School of Graduate Studies websites.

1. B.A. or B.S. degree and successful completion of a MLS/CLS/MT certification examination (ASCP certification preferred; include proof of certification with application).
2. Cumulative Grade Point Average (GPA) of at least 3.0 (on a 4.0 scale) for the junior and senior years of undergraduate work.
3. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.
4. Previous work experience as a MLS/CLS/MT is recommended (include a resume of applicable work experience with application).

## Degree Requirements

Students seeking the Master of Science degree at the University of North Dakota must satisfy all general requirements set forth by the School of Graduate Studies as well as particular requirements set forth by the Medical Lab Science Program.

1. A minimum of 33 total semester credits as outlined in the Curriculum section
2. Successful completion of two comprehensive examinations.

## Curriculum

### FOUNDATION COURSES

All Foundation Courses are required for degree completion. MLS 525 must be completed in the first semester. MLS 524 should be completed during the first or second fall semester. MLS 515 should be completed in the last spring semester.

Code	Title	Credits
MLS 515	Capstone in Medical Laboratory Science	2
MLS 524	Current Trends and Issues in Medical Laboratory Science	2
MLS 525	Professional Communication in the Medical Laboratory	3
MLS 590	Project Development	1
MLS 997	Independent Study	2

### CORE COURSES

Three Core Courses are required for degree completion. Additional Core Courses taken beyond the requirement are counted as Elective Courses.

Code	Title	Credits
Choose at least three:		
MLS 502	Advanced Clinical Hematology: Erythrocytes	3
MLS 503	Advanced Clinical Hematology: Leukocytes	3
MLS 506	Advanced Clinical Chemistry	3
MLS 507	Advanced Clinical Immunohematology	3
MLS 513	Advanced Clinical Immunology	3
MLS 518	Advanced Molecular Diagnostics	3
MLS 522	Advanced Clinical Bacteriology	3

MLS 523	Advanced Non-Bacterial Microbiology	3
MLS 526	Advanced Clinical Hemostasis	3

### LEADERSHIP COURSES

One Leadership Course is required for degree completion. Additional Leadership Courses taken beyond the requirement are counted as Elective Courses.

Code	Title	Credits
Choose at least one:		
MLS 530	Medical Laboratory Leadership: Principles Practice	1
MLS 531	Medical Laboratory Leadership: Practical Applications	1
MLS 532	Medical Laboratory Leadership: Conflict Resolution	1

### ELECTIVE COURSES

Select from available Elective Courses to reach the total credits required for degree completion. Note that any Core or Leadership Course taken beyond the requirement will be counted as an Elective Course.

Code	Title	Credits
MLS 501	Advanced Laboratory Practice: Technical Concepts	3
MLS 505	Advanced Laboratory Practice: Financial Management	3
MLS 509	Medical Laboratory Education: Teaching Principles	3
MLS 516	Special Topics in Medical Laboratory Science	1-4
MLS 517	Advanced Laboratory Practice: Administrative Concepts	3
MLS 527	Medical Laboratory Education: Assessment and Accreditation	3
MLS 589	Readings in Medical Laboratory Science	1
MLS 590	Project Development	1
MLS 591	Directed Study in Laboratory Medicine	1-6