

# MEDICAL LABORATORY SCIENCE (B.S.)

The field of Medical Laboratory Science is the medical application of the basic sciences. Principles of cellular biology, organic and biochemistry, microbiology, immunology and physiology are applied to clinical laboratory testing.

Students majoring in Medical Laboratory Science spend three years at the University of St. Francis taking liberal education and science courses followed by a 10-12 month professional phase at an affiliated hospital school. Students may transfer from a community college to complete their junior year at the University of St. Francis and then the 10-12 month clinical phase of study; however, one and a half to two years of study at the University of St. Francis is recommended prior to starting the clinical phase. It is important to note that admission to the University of St. Francis does not guarantee admission to the professional phase of the program. Students will need to apply to the affiliated hospital program in the fall of their junior year to begin the following fall.

## Major Program (71 credit hours)

Code	Title	Hours
<b>Required Courses</b>		
BIOL 124 & BIOL 125	Principles of Biology I and Principles of Biology I Lab	4
BIOL 211	Microbiology	5
BIOL 252	Human Physiology	4
BIOL 343	Immunology	3
CHEM 121	General Chemistry I	4
CHEM 122	General Chemistry II	4
CHEM 224 & CHEM 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHEM 322 & CHEM 323	Biochemistry and Biochemistry Lab	5
MATH 105	Introduction to Statistics	3
MEDT 345	Introduction To Medical Laboratory Science	3
Professional Phase I and II (10-12 month clinical experience)		32
<b>Total Hours</b>		<b>71</b>

The curriculum of the professional phase of the program is determined by the hospital-based program and may require additional tuition and fees beyond those charged to non-allied health majors. USF is affiliated with three programs: Edward J. Hines VA Hospital (Hines, IL), Franciscan Health (Dyer, IN) and OSF Saint Francis Medical Center (Peoria, IL). Admission to these programs is competitive and depends on successful application to the individual programs; therefore, it is recommended that the student apply to more than one program. These affiliations are subject to change without notice.

Courses listed below should be used as guides only, coursework may vary depending on the affiliated program the student attends.

Code	Title	Hours
MEDT 410	Clinical Chemistry I	3
MEDT 412	Clinical Chemistry II	4-5
MEDT 420	Clinical Hematology	5
MEDT 430	Clinical Hemostasis	1

MEDT 440	Clinical Immunohematology	4
MEDT 450	Clinical Immunology	3
MEDT 460	Clinical Microbiology I	2
MEDT 462	Clinical Microbiology II	3-4
MEDT 470	Topics: Clinical Laboratory Science	1
MEDT 480	Clinical Management and Education	1
MEDT 482	Clinical Microscopy	2
MEDT 484	Clinical Parasitology/Mycology	1
<b>Total Hours</b>		<b>30-32</b>

Students work with their advisors in selecting additional elective credits to fulfill the 120 credit hours required for graduation.