

Medical Laboratory Science, BS

Requirements

The Bachelor of Science with a major in medical laboratory science requires a minimum of 124 s.h., including preparatory study at the University of Iowa and the professional (clinical) program. Acceptance into the affiliated programs is competitive; see specific program websites for admission requirements.

Students who plan to pursue a BS degree in medical laboratory science at the University of Iowa enter the university as students in the College of Liberal Arts and Sciences, where they complete the preparatory coursework that is prerequisite to entering the major. Students then begin the professional program, which consists of both didactic lectures and clinical rotations. Students who successfully complete the professional requirements through one of the affiliated medical laboratory science programs graduate with a BS in medical laboratory science awarded by the University of Iowa.

To learn more about the professional programs, visit the medical laboratory science pages on the Mercy College of Health Sciences website or the medical laboratory technology page on the Kirkwood Community College website.

Kirkwood Community College

Students in the Kirkwood program must maintain a cumulative grade-point average (GPA) of at least 2.00 in all courses for the major and in all University of Iowa courses. They must earn a grade of C (not C-minus) or higher in every course. General education requirements may differ from the GE CLAS Core; reach out to the medical laboratory science coordinator for information. Students complete the prerequisite coursework in the first two years at the University of Iowa. Alternatively, students may choose to attend the Kirkwood program first and continue their studies at the University of Iowa.

Required Courses

Students take the following required courses at the University of Iowa. Students who begin at UI must complete all of the following before they may be admitted to the major in medical laboratory science, with the exception of four courses that may be taken concurrently with Kirkwood coursework.

Course #	Title	Hours
All of these:		
BIOL:1411	Foundations of Biology	4
BIOL:1412	Diversity of Form and Function	4
CHEM:1110	Principles of Chemistry I	4
CHEM:1120	Principles of Chemistry II	4
CS:1020	Principles of Computing (may be taken concurrently while at Kirkwood if attending UI first)	3
HHP:1300	Fundamentals of Human Physiology	3

MATH:1005	College Algebra (or a math course [prefix MATH] numbered above 1005)	4
MICR:3147	Immunology and Human Disease (may be taken concurrently while at Kirkwood if attending UI first)	3
PATH:4201	Laboratory Management (may be taken concurrently while at Kirkwood if attending UI first)	3
One of these:		
BMB:3110	Biochemistry (may be taken concurrently while at Kirkwood if attending UI first)	3
CHEM:2210	Organic Chemistry I	3
One of these:		
STAT:1020	Elementary Statistics and Inference	3
STAT:1030	Statistics for Business (preferred)	4

Students who begin at the University of Iowa must complete the following courses before admission to the major. Students who begin at Kirkwood Community College must satisfy the following but may be able to transfer equivalent courses.

Course #	Title	Hours
HHP:1400	Human Anatomy and Physiology	3
MICR:3164	Microbiology and Human Health	4

Mercy College of Health Sciences

Students in the Mercy College of Health Sciences (MCHS) program in Des Moines must maintain a cumulative grade-point average (GPA) of at least 2.50 in all courses for the major and in all University of Iowa courses. They also must complete the College of Liberal Arts and Sciences GE CLAS Core. Students in the Mercy College program complete the prerequisite coursework in the first three years at the University of Iowa and must pursue admission into the MCHS program for the fourth year.

Prerequisites for Admission to the Major-Mercy College

Students must:

- achieve a cumulative GPA of at least 2.50 on a 4.00 scale in all college-level coursework;
- achieve a cumulative GPA of at least 2.50 on a 4.00 scale in all college-level coursework in science, which includes biology, microbiology, zoology, chemistry, physics, mathematics, statistics, and related courses; and
- earn a grade of C (not C-minus) or higher in all required courses.

Students must complete the following coursework and be accepted into the program at MCHS before they may be admitted to the major in medical laboratory science.

Course #	Title	Hours
All of these:		
BIOL:1411 & BIOL:1412	Foundations of Biology - Diversity of Form and Function	8
CHEM:1110 & CHEM:1120	Principles of Chemistry I-II	8
CHEM:2210 & CHEM:2220	Organic Chemistry I-II	6
CHEM:2410	Organic Chemistry Laboratory	3
MATH:1005	College Algebra	4
MICR:2157 & MICR:2158	General Microbiology - General Microbiology Laboratory	5
One of these:		
HHP:1100 & HHP:1110	Human Anatomy - Human Anatomy Laboratory	4
HHP:1300 & HHP:1310	Fundamentals of Human Physiology - Human Physiology Laboratory	4
HHP:1400	Human Anatomy and Physiology	3
HHP:3105	Anatomy for Human Physiology	3
HHP:3115	Anatomy for Human Physiology with Lab	5
HHP:3500	Human Physiology	3
HHP:3550	Human Physiology with Laboratory	5
MICR:3147	Immunology and Human Disease	3

Coursework taken to meet the biology and chemistry requirements completed seven or more years before application may require updating. This is determined by the MCHS program chair.

Questions about the requirements should be directed to the Mercy College of Health Sciences.