

University of Indianapolis – Shaheen College of Arts & Sciences

2025-2026 Curriculum Guide for Medical Laboratory Science Majors (MLSC)

Bachelor of Science

Freshman Year

- **CHEM 150** General Chemistry I (3) ** and **CHEM 151** General Chemistry Lab I (1) **
- **CHEM 160** General Chemistry II (3) ** and **CHEM 161** General Chemistry Lab II (1) **
- **BIOL 165** Introduction to Cell Biology (4) *

Sophomore Year

- **CHEM 250** Organic Chemistry I (3) ** and **CHEM 251** Organic Chemistry Lab I (2) **
- **CHEM 260** Organic Chemistry II (3) ** and **CHEM 261** Organic Chemistry Lab II (2) **
- **BIOL 103** Principles of Human Anatomy (4) *
- **BIOL 104** Principles of Human Physiology (4) *
- **BIOL 225** Introduction to Genetics (4) *

Junior Year

- **CHEM 310** Analytical Chemistry (5) **
- **BIOL 220** General Microbiology (4) *
- **BIOL 370** Immunology (3) *

Senior Year

- **CHEM 401** MLS Clinical Rotations I (16)
- **CHEM 402** MLS Clinical Rotations II (16) [capstone]

The Medical Laboratory Science Curriculum requires, in addition to the above courses, the completion of the twelve- month program in Medical Laboratory Science at one of the hospitals affiliated with the University of Indianapolis (currently affiliated hospitals are IU Health Methodist Hospital, Indianapolis, Indiana; Franciscan Health, Indianapolis, Indiana; and Parkview Health, Fort Wayne, Indiana). Students must apply for admission to one of the programs. This clinical program replaces the final year of undergraduate academic work if a student has completed all Medical Laboratory Science prerequisites, all general education core courses for the Shaheen College of Arts and Sciences, and at least 90 hours of undergraduate coursework counting toward a degree. Students also may apply to the clinical program following completion of a degree program that includes all prerequisite courses.

Required Support Courses:

- **MATH 190** Calculus and Analytic Geometry I (4) *
- **PHYS 150** General Physics I (4) * **or**
- **PHYS 153** General Physics I, Calculus Based (4) *
- **PHYS 160** General Physics II (4) * **or**
- **PHYS 163** General Physics II, Calculus Based (4) *
- **COMP 150** Microcomputer Applications (3) * **or**
- **CSCI 155** Introduction to Programming using C++ (3) * **or**
- **CSCI 130** Microcomputer Applications (3) * **or**
- **CSCI 132** Software Applications for the Sciences (2) *
- **ELEC XXX** Science and Math Electives (4) *

* Requires a grade of C- or above

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NOTES:

- The Medical Laboratory Science major requires a minimum of 68 hours. The Bachelor of Science Degree requires a minimum of 120 hours.
- See the General Education Core Guide for additional course requirements.
- A student may complete more than one major as long as each major has at least 24 discrete hours. Please see the Academic Catalog for additional details.

REMEMBER: If you have any questions about the Medical Laboratory Science Major and its requirements, contact Dr. David Styers-Barnett; 317-788-2061; Lilly Science Hall, Room 332D); or your academic advisor. Courses and requirements sometimes change so keep in contact with your advisor.