

Pre-Medical Laboratory Sciences & Biotechnology



Jefferson
Thomas Jefferson University

COLLEGE of HEALTH PROFESSIONS



CAREER and INTERNSHIP HIGHLIGHTS

Our three distinct programs prepare laboratory professionals for careers in the fields of biotechnology, cytotechnology and cell sciences, or medical laboratory science. Throughout your chosen program, you will experience cutting-edge training with nationally recognized faculty.

- Four practicum experiences are scheduled for students and built into the curriculum at one of the department's 40+ clinical, academic and industry affiliates.
- Recently renovated laboratories with state-of-the-art audio visual systems and equipment used in practice.
- Hands-on curriculum that is competency driven and based on current practice and board certification exam content.
- Highly marketable training in laboratory management and regulatory affairs.

Jefferson is known for crossing disciplines to reimagine the way students learn with an approach that is collaborative and active; global; integrated with industry; focused on research across disciplines to foster innovation and discovery; and technology-enhanced. As a national doctoral research university, Jefferson delivers high-impact professional education in 160 undergraduate and graduate programs to 7,800 students in architecture, business, design, engineering, fashion and textiles, health, social science and science.

PROGRAM HIGHLIGHTS

The Department of Medical Laboratory Sciences and Biotechnology offers three different programs:

- Biotechnology
- Cytotechnology and Cell Sciences
- Medical Laboratory Science

At Jefferson, you can earn both your bachelor's and master's degrees in five years through our accelerated dual degree program, earning a Bachelor of Science in Health Sciences and a Master of Science in Biotechnology, Cytotechnology and Cell Sciences, or Medical Laboratory Science.

- Graduates of the Cytotechnology and Cell Sciences program have had a 100% pass rate on the ASCP Board of Certification exam for the past three years.
- The Biotechnology program now offers a BS and MS in Biotechnology with a concentration in Biopharmaceutical Process Development at the Jefferson Institute for Bioprocessing—the only training and education institution of its kind in North America.
- The Medical Laboratory Science program continues to have a 100% job placement rate after graduation.

Jefferson.edu/MLSB

Curriculum

YEAR

YEAR 1 + 2

Hallmarks

Pathways Seminar
Writing Seminar I & II
Ethics
American Diversity
Global Diversity
Global Citizenship
American Studies
Pre- or Introduction to Calculus

Sciences

Biology I & II with Lab*
Chemistry I & II with Lab*
Anatomy & Physiology I & II with Lab*
(or equivalent for BT program)
Organic Chemistry I with Lab*
(or equivalent for MLS program)

Psychology

Health Sciences

Introduction to Health Professions
Introduction to Healthcare

Elective (3 credits)

YEAR 3

Health Sciences

Applied Statistics
Medical Terminology
Health Sciences Elective

Sciences

Microbiology with Lab*
Science Elective (Biology/Chemistry)*

Hallmarks

Contemporary Global Studies
Integrative Seminar
Capstone Folio

* **Science prerequisites** (minimum "C" grade in all courses and 3.0 overall science GPA)

As a student in the accelerated BS/MS program, you will build strong skills in critical thinking and problem solving through foundation courses in basic sciences and humanities offered on the East Falls campus (pre-professional curriculum) and program-specific coursework on the Center City campus (professional curriculum). Students who interview and maintain progression criteria are guaranteed to matriculate into the professional phase. In addition to this dual degree option, 2+2 and 3+1 options are available.