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.

**Pre-Medical Laboratory Sciences & Biotechnology**

**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.

**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 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

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* 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.