

# Medical Laboratory Science

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## Contact Information

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- Graduate Certificate (4)

## Program Mission

The mission of the Medical Laboratory Science Program at the University of Illinois Springfield is to offer a premier educational experience through student-centered teaching, experiential learning, professional service, and community engagement to develop responsible, scrupulous, competent professionals who will meaningfully contribute to laboratory medicine.

## MLS Program Goals

1. Develop knowledgeable, skilled, quality-focused, conscientious, and adaptable professionals.
  - a. Addresses UIS Values: Student-Focused Teaching and Learning, Integrity, Civic Engagement.
  - b. Addresses UIS Directional Pillars: World Class Teaching, Personal Attention, Experience Engaged.
  - c. Measured through MLS Student Learning Outcomes.
2. Cultivate research, communication, critical thinking, and problem-solving skills grounded in evidence-based practice.
  - a. Addresses UIS Values: Inquiry, Strategic Thinking.
  - b. Addresses UIS Directional Pillars: Liberal Arts Skilled.
  - c. Measured through MLS Student Learning Outcomes.
3. Establish skills in professionalism, lifelong learning, and professional engagement to shape a diverse, inclusive, and equitable professional landscape.
  - a. Addresses UIS Values: Civic Engagement, Diversity, Accountability.
  - b. Addresses UIS Directional Pillars: Liberal Arts Skilled, Experience Engaged.
  - c. Measured through MLS Student Learning Outcomes.

## MLS Student Learning Outcomes

1. Demonstrate the entry-level competency necessary to validate, perform, maintain, troubleshoot, and interpret medical laboratory analyses with reliable accuracy while upholding quality, safety, and regulatory standards.

- a. Introduced through: Assignments, Quizzes, Laboratories, Practical's. (first-semester, discipline-specific courses)
  - b. Reinforced through: Assignments, Quizzes, Laboratories, Practical's. (second/third-semester, discipline-specific courses)
  - c. Assessed through: Categorical Comprehensive Closure Exam. (MLS 516)
2. Identify, apply, and communicate evidence-based practice in laboratory medicine to meet the needs of patients, laboratory practitioners, and members of the interdisciplinary healthcare team.
    - a. Introduced through: Graduate-level Cast Study Presentation. (first-semester, discipline-specific courses)
    - b. Reinforced through: Graduate-Level Cast Study Presentation (second/third-semester, discipline-specific courses.
    - c. Assessed through: Scholarly Reflection (MLS 516)
  3. Exhibit principles and practices of professional conduct necessary to collaborate with and serve diverse populations.
    - a. Introduced through: Student Conduct Evaluation. (first-semester, discipline-specific courses)
    - b. Reinforced through: Student Conduct Evaluation (second/third-semester, discipline-specific courses)
    - c. Assessed through: Professional Attitude and Behaviors Evaluation. (MLS 516)
  4. Demonstrate readiness to maintain professional competency and relevance through continuing professional development and to promote a diverse, inclusive, equitable profession through professional engagement.
    - a. Introduced through: Graduate-Level Case Study Presentation. (first-semester, discipline-specific courses)
    - b. Reinforced through: Graduate-Level Case Study Presentation. (second/third-semester, discipline-specific courses)
    - c. Assessed through: Scholarly Reflection. (MLS 516)

## GRADUATE CERTIFICATES

- Graduate Certificate in Clinical Chemistry
- Graduate Certificate in Hematology
- Graduate Certificate in Immunohematology
- Graduate Certificate in Medical Microbiology