

GOAL: Build a science and math foundation for college-level laboratory programs.

Recommended courses:

- Biology
- Chemistry
- Anatomy & Physiology
- Algebra and/or Statistics
- English Composition

Actions:

- Take the ACT and/or SAT
- Speak with your guidance counselor about:
 - Dual credit opportunities
 - Financial aid
 - Local college partnerships
- Contact Human Resources departments at local hospitals and health care facilities to learn more about job shadow or observation opportunities and entry-level positions offered for high school students.

Resources:

- Explore careers, find a school, talk to a career ambassador, and learn from frequently asked questions: https://www.whatsmynext.org
- Learn more information on joining this profession: https://www.laboratorysciencecareers.com



Step 2: Enroll in an Accredited College Program

GOAL: Complete an accredited program.

ACCREDITOR: National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) or Accrediting Bureau of Health Education Schools (ABHES)

Medical Laboratory Technician (MLT) - Associate Degree (typically 2 years):

- Henderson Community College (Henderson)
- Jefferson Community and Technical College (Louisville)
- Madisonville Community College (Madisonville)
- Maysville Community and Technical College (Maysville)
- Somerset Community College (Somerset)
- Southcentral Kentucky Community and Technical College (Bowling Green)
- West Kentucky Community and Technical College (Paducah)
- American National University (Pikeville)

Medical Laboratory Scientist (MLS) - Bachelor's Degree (typically 4 years):

- University of Kentucky (Lexington)
 - Traditional track
 - MLT-to-MLS online path
- Eastern Kentucky University (Richmond)
- Owensboro Health Regional Hospital Medical Lab Science Program (Owensboro)
- St. Elizabeth School of Medical Lab Science (Edgewood)

Resources:

Find a NAACLS-accredited program: https://naacls.org/program-search/



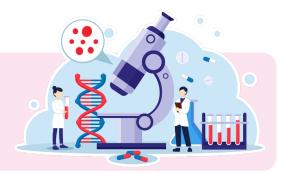






Step 3: Work in the Field

GOAL: Gain knowledge and experience after high school or while obtaining your laboratory education.



Job Opportunities Throughout a Laboratory Career Pathway

High School

Check with your local hospital or health care facilities for opportunities:

- Shadow or volunteer
- Entry-level positions for high school students
- Summer health care camps for students

College

Entry-Level hospital roles may include, but are not limited to:

- Food Services
- Environmental Services
- Patient Transport
- Nursing Assistant
- Phlebotomy certificate program
- Medical Laboratory Assistant certificate program





Resources: View a roadmap for careers in medical laboratories: https://whatsmynext.org

Step 4: Obtain National Certification

GOAL: Pass certification examination required by most Kentucky employers within a specified time frame.

The most common certification required is through the American Society for Clinical Pathology (ASCP) Board of Certification (BOC). Some employers may also accept certification through American Medical Technologists (AMT).

- · Verify exam eligibility requirements
- Explore Specialist certification exams

Resources:

- Find ASCP eligibility details, an exam application, and continuing education requirements: https://www.ascp.org
- Find AMT eligibility details, an exam application, and continuing education requirements: https://americanmedtech.org





Step 5: Understand Kentucky Regulations

Kentucky does not license individual laboratory professionals; however, clinical laboratories must be licensed by the state and meet personnel standards.

Step 6: Pursue Professional Growth & Continuing Education



GOAL: Continue learning and stay involved in your field.

Continuing Education (CE): Required every three (3) years to maintain certification

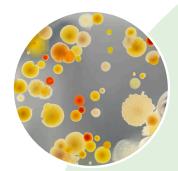
Professional Organizations

- The American Society for Clinical Laboratory Science (ASCLS) – https://ascls.org
 - National advocacy, continuing education, and networking
- The Kentucky Society for Clinical Laboratory
 Science (KSCLS) https://www.kscls.org/home
 - State advocacy, continuing education, and networking
- American Society for Clinical Pathology (ASCP) https://www.ascp.org
 - Networking, education, and scholarships
 - All laboratory students are eligible for free membership while in school

Optional: Pathways for Advancement

- Pursue specialist certifications, which include, but are not limited to:
 - Specialist in Blood Banking (SBB)
 - Specialist in Chemistry (SC)
 - Specialist in Microbiology (SM)
- Leadership roles
 - Lead MLT or MLS, supervisor, manager, or director
- MLT-to-MLS completion programs enable upward mobility while working











Pathway to | Medical Laboratory Technician a Career | and Medical Laboratory Scientist



Step 1: High School Preparation

- 1. Take college preparatory courses
- 2. Take the ACT and/or SAT
- 3. Speak with your guidance counselor
- 4. Contact HR at hospitals to job shadow

Step 2: Enroll in an Accredited College Program

Obtain an Associate Degree for Medical Laboratory Technician (MLT) or Bachelor's Degree for Medical Laboratory Scientist (MLS)

Step 3: Begin Working in the Field

Lab-Specific Roles – Generally, on-the-job training is provided, but some employers may prefer or require formal training and certification

- 1. Phlebotomist 4. Laboratory Assistant
- 2. Laboratory Aide
- 3. Medical Laboratory Assistant

Entry-Level Roles – *Generally, on-the-job training is provided*

Examples include:

- Food Services
- Nursing Assistant
- Patient Transport
- Environmental Services

Step 4: Pass National Certification (Generally required by employers)

Most common certifications are obtained through the American Society for Clinical Pathology (ASCP) or the American Medical Technologists (AMT)

Step 5: Start Career as a Laboratory Professional

- Complete an accredited college degree program
- Obtain national certification

Roles after College and Certification

- Medical Lab Technician (MLT) Associate Degree
- Medical Lab Scientist (MLS) Bachelor's Degree

Advanced Roles May Include:

- Specialist Certifications
 - Specialist in Blood Banking (SBB)
 - Specialist in Chemistry (SC)
 - Specialist in Microbiology (SM)
- Leadership Roles
 - Lead Tech or Scientist
 - Supervisor
 - Manager
 - Director

Step 6: Professional Growth & Engagement

- Maintain continuing education (CE) credits
- Get involved in professional organizations
 - The American Society for Clinical Laboratory Science (ASCLS)
 - The Kentucky Society for Clinical Laboratory Science (KSCLS)
 - American Society for Clinical Pathology (ASCP)