Medical Laboratory Science

http://www.unt.edu/majors/umdth.htm

General information on Careers for Medical Laboratory Science Majors:

Medical Laboratory Scientists perform many laboratory tests to help physicians diagnose illness and provide treatment. They conduct chemical tests to determine blood glucose and cholesterol levels, examine tissues to detect diseases, and type and match blood samples for transfusions. Medical Laboratory Scientists are problem solvers. They use their knowledge as well as technical skills to operate and repair laboratory instruments, monitor quality-control programs, produce patient test results and compare the results with the stages and symptoms of diseases.

By choosing Laboratory Science as a major at the University of North Texas, you may manage laboratory information systems, consult for businesses or forensic cases, help scientists discover disease treatments and cures or work in or for:

- a laboratory of a hospital or clinic
- a physician's office
- a blood bank
- a health maintenance organization
- an independent laboratory serving hospitals and physicians
- a pharmaceutical firm
- an insurance company
- a research laboratory
- a coroner

Some medical laboratory scientists work for the armed forces, Peace Corps, Red Cross, U.S. Public Health Service or Veterans Affairs hospitals. Others provide educational programs, work in quality control, and pursue product development or sales jobs for companies that manufacture laboratory equipment and supplies.

A bachelor’s degree with a major in medical technology will prepare you to enter most of these jobs. After graduation, you must become certified by passing an examination given by the American Society for Clinical Pathology or the National Credentialing Agency for Laboratory Personnel. To advance further in this field, you may need to earn a master’s degree.
**Majoring in Medical Laboratory Science**

As a medical technology major, you will study amino acids, carbohydrates, enzymes, proteins and vitamins in humans, bacteria and disease, the immune system, organic chemistry, scientific methods for analyzing chemical reactions, and the structure and function of cells, tissues and organ systems in animals and humans. You also may study animal parasites, genetics and techniques that laboratory professionals use to examine cells and body fluids under a microscope. You will also take general courses in management, technical writing and statistics.

You’ll combine classroom instruction with lab and practical experiences. The curriculum has been developed in cooperation with some of the state’s top hospitals and medical centers. Our affiliations are with:

- Texas A&M - Corpus Christi
  Clinical Laboratory Science
  Corpus Christi, TX

- Tarleton State University
  Dept. of Medical Laboratory Sciences
  Ft. Worth, TX

- Houston Methodist Hospital
  Medical Laboratory Science Program
  Houston, TX

- United Regional Health Care
  School of Medical Technology
  Wichita Falls, TX

- Baylor Scott & White Health Program
  Clinical Laboratory Science
  Temple, TX

- Parkview School of Medical Laboratory Science
  Pueblo, CO

- Comanche County Memorial Hospital
  School of Medical Technology
  Lawton, OK
Our laboratory facilities in the Chemistry Building and the Life Sciences Complex feature state-of-the-art equipment that allows you to research cell structure and microorganisms.

Faculty members in the biological sciences and chemistry departments are dedicated to high-quality teaching. Five faculty members have been named Regents Professors for their outstanding teaching and research. Regents Professors devote at least half of their teaching load to introductory-level courses. Two biological sciences professors received UNT’s President’s Council University Teaching Award, and two received the Shelton Excellence in Teaching Award.

*For more information about specific classes and requirements for students beginning in 2016-2017 follow the links provided below.

[BSMLS in Medical Laboratory Science](#)

**Related Career Titles:**

- Medical Laboratory Technologist
- Clinical Laboratory Technologist/Scientist
- Histologist Technologist
- Research Assistant
- Chief Medical Technologist
- Laboratory Manager
- Microbiology Technologist

*Additional training can lead to certification in:

- Infection Control
- Specialist in Blood Banking
- Specialist in Hematology
- Specialist in Toxicology
Possible Work Settings
State, Local and Private Hospitals
Medical and Diagnostic Laboratories
Clinics
Offices of Physicians
Blood Banks
Pharmaceutical Companies
Colleges and Universities

Skills Used and Developed in the Medical Laboratory Science Major

<table>
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<th>Quality Control Analysis</th>
<th>Near Vision</th>
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<td>Problem Sensitivity</td>
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<td>Reading Comprehension</td>
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<td>Troubleshooting</td>
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<td>Critical Thinking</td>
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<tr>
<td>Complex Problem Solving</td>
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Student Organizations at UNT (Learn more at UNT ORGSYNC)

Lambda Alpha Beta (L.A.B)- Medical Laboratory Science Student Led Organization

Beta Beat Beta (Tri-Beta)- Biological Sciences Honor Society

Job Sites for Your Major


Professional Organizations

**Additional Resources**


Eagle Careers: [http://careercenter.unt.edu/eagle_network.html](http://careercenter.unt.edu/eagle_network.html)

LinkedIn: [http://university.linkedin.com/linkedin-for-students.html](http://university.linkedin.com/linkedin-for-students.html)


USAjobs: [https://www.usajobs.gov/StudentsAndGrads](https://www.usajobs.gov/StudentsAndGrads)

CareerOneStop: [http://www.careeronestop.org/](http://www.careeronestop.org/)


Need help figuring all this out? Call the Career Center and make an appointment with your Career Advisor! You can also get help with resume and cover letter writing and interview skills preparation.

*Information for this handout compiled from the following Career Services Departments:

Central Washington University: [http://www.cwu.edu/career/](http://www.cwu.edu/career/)

Indiana University-Purdue University Fort Wayne: [http://www.ipfw.edu/offices/career/](http://www.ipfw.edu/offices/career/)

Texas State University: [http://www.careerservices.txstate.edu/](http://www.careerservices.txstate.edu/)

University of North Carolina Wilmington: [http://www.uncw.edu/career/index.html](http://www.uncw.edu/career/index.html)

University of North Texas: [http://careercenter.unt.edu/](http://careercenter.unt.edu/)

University of Tennessee-Knoxville: [http://career.utk.edu/](http://career.utk.edu/)

University of Wisconsin-Eau Claire: [http://www.uwec.edu/Career/index.htm](http://www.uwec.edu/Career/index.htm)