



Jones Hall

# Clinical Laboratory Technician

The clinical laboratory technician (medical laboratory technician) performs laboratory tests using blood, tissue, and body fluid samples under the supervision or direction of pathologists, physicians, or clinical laboratory scientists.

Physicians use these tests to determine the origin, presence, and extent of disease and to monitor the treatment of the disease. In fact, it is estimated that 85% of all information that physicians utilize in diagnosis and treatment is attained through clinical laboratory analysis.

## Employment Opportunities

As a clinical laboratory technician (CLT) graduate, you will enjoy employment opportunities in clinics, hospital, pharmaceutical, and private laboratories, public health facilities, research, and sales.

Through the Office of Career Services, clinical laboratory technicians graduating from YSU typically have the opportunity to interview on campus with numerous prospective employers. The placement rate for YSU CLT graduates is well over 90%.

Currently, there is a national vacancy rate for clinical laboratory technicians of 10–15%. Annual starting salaries generally meet or exceed the national average for graduating clinical laboratory technicians.

The following career paths are available to CLT graduates:

- Laboratories
- Blood Banking
- Clinical Chemistry
- Hematology
- Microbiology
- Immunology
- Urinalysis
- Public Health Facilities

- Research
- Technical Sales
- Infectious Disease
- Molecular Diagnostics

## Degree Options

The clinical laboratory technician program is a two-year program offered through the Department of Health Professions and leading to an Associate in Applied Science degree.

If you are interested in further laboratory science education, you may consider the “two-plus-two” Bachelor of Science in Applied Science (BSAS) degree program in clinical laboratory science (medical technology) or the BSAS program in Allied Health. Students who have an associate degree in clinical laboratory technology and then complete a bachelor’s degree with specific courses can become certified as clinical laboratory scientists after working two years in the clinical laboratory under a pathologist. Further, a fast track option exists for those students who have majors or degrees in biology or chemistry.

## Accreditation

The clinical laboratory technician program of the Bitonte College of Health and Human Services is professionally accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and meets the standards developed by the American Society of Clinical Pathologists (ASCP) and the American Society of Clinical Laboratory Science (ASCLS).

## Facilities

Cushwa Hall is home to the clinical laboratory technology program and houses classrooms, conference rooms, and two laboratories including a fully equipped laboratory that provides the opportunity for laboratory education that utilizes automated and semi-automated technologies.

Computer assisted learning and distance learning are also incorporated into the curriculum.

### Faculty

YSU maintains a faculty-student ratio of 1:19, among the lowest of the state-affiliated universities in Ohio.

The program retains its tradition as a small school in maintaining close contact between its students and faculty. Experienced teaching professionals who have expertise in the theory and practice of the laboratory profession staff the CLT program. Faculty or academic advisors advise all CLT students each semester.

There is a faculty-student ratio of approximately 1:1 in the clinical setting and 1:15 in CLT classes.

### Professional and Honorary Societies

Outstanding clinical laboratory technician students may be elected to campus chapters of Lambda Tau (national medical technicians honorary society) and Phi Kappa Phi (honorary society for all disciplines).

## Curriculum Overview

### Year 1

Introduction to Clinical Laboratory Science and Laboratory  
Principles of Biology 1 with Laboratory  
General Chemistry 1 with Laboratory  
Urinalysis and Laboratory  
Immunohematology and Laboratory  
Principles of Biology 2 with Laboratory  
Clinical Procedures Laboratory  
Clinical Chemistry 1

### Year 2

Instrumentation  
Clinical Chemistry 2 and Laboratory  
Diagnostic Microbiology and Laboratory  
Clinical Hematology and Laboratory  
Clinical Immunology and Laboratory  
Seminar  
Clinical Practicum  
Interpretation of Laboratory Results

**For more information about this program, go to**

<http://bchhs.ysu.edu/dhp/dhp.html>



[www.ysu.edu](http://www.ysu.edu)

To obtain the Undergraduate Admissions and Financial Aid Application and/or a copy of the current Undergraduate Bulletin, please contact the Office of Admissions at:

Telephone: (877) 468-6978 330-941-2000 TDD: 330-941-1564 Fax: 330-941-3674 E-mail: [enroll@ysu.edu](mailto:enroll@ysu.edu)

The Office of Admissions is open Monday and Thursday, 8:00 a.m. to 6:00 p.m., and Tuesday, Wednesday, and Friday, 8 a.m. to 5 p.m. The Office is also open every other Saturday from 9 a.m. to noon, except on holiday weekends and during term breaks