

# Clinical Laboratory Technology

*The clinical laboratory technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences.*

The clinical laboratory technology programs of Elgin Community College prepare individuals for rewarding professional careers that combine medicine and science and build a strong foundation for positions in healthcare leadership, biotechnology or forensics. The job outlook is excellent with employment opportunities existing in hospitals, outpatient clinics, commercial labs, research labs, blood centers, public health departments, veterinary labs and others.

## Clinical laboratory technicians

Clinical laboratory technicians (CLTs) perform diagnostic analyses on blood and body fluid samples using state-of-the-art laboratory equipment, interpret test results and consult with physicians in determining and monitoring necessary treatment for patients.

The program integrates general education and professional courses with hands-on experiences in a variety of clinical lab settings and leads to an associate degree. Online education is combined with on-campus labs to prepare students with the technical skills needed to work in the laboratory departments of hematology, microbiology, chemistry, blood bank, immunology, microscopy and phlebotomy.

Upon completion of the degree, students are eligible to sit for national certification exams offered by the American Society of Clinical Pathology and the National Credentialing Agency for Laboratory Personnel.

The CLT program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 5600 N. River Rd., Suite 720, Rosemont, IL 60018, 773-714-8880.

## Clinical laboratory assistants

Clinical laboratory assistants (CLAs) are important members of the laboratory team who collect and process specimens, prepare slides and cultures, and perform point-of-care testing procedures.

The program leads to a basic vocational specialist certificate and introduces basic lab skills, safety and infection control, medical terminology, specimen collection and laboratory automation. Students also perform point-of-care tests in hematology, urinalysis, chemistry, microbiology, and immunology.

**Policies and Procedures:** Criminal background checks and drug testing are required for all health professions programs. Students demonstrating a positive background check or drug test will be denied admission to health professions programs. Students demonstrating a positive background check or annual drug test while enrolled in a health professions program will be dismissed from the program.

The standards, policies, and procedures of the clinical laboratory technology programs are established in the respective student handbooks. Copies are available in the CLT Office, HBT 191, Spartan Campus, or online at [www.elgin.edu/ctl](http://www.elgin.edu/ctl).

**Special Admissions Requirements:** Admission to the CLT/CLA program is selective. Students may obtain an application for admission online at [www.elgin.edu/ctl](http://www.elgin.edu/ctl). Applications are reviewed in the order received and candidates will be notified of their status. Students are encouraged to apply early. Please refer to the student appeals and complaint procedure for admissions appeals, [www.elgin.edu/policies](http://www.elgin.edu/policies). New CLT classes begin each fall semester; new CLA classes begin each spring semester.

**Admissions Materials:** All CLT/CLA candidates must submit the following items to the ECC Records Office:

1. ECC application
2. Health professions application
3. Official high school transcript/GED scores
4. Official transcripts from other colleges attended

**Entrance Requirements:** Clinical Laboratory Technician

1. Grade of C or better in BIO 110 or equivalent or score of 4 or more on the AP biology exam.
2. Grade of C or better in CHM 101 or equivalent or high school chemistry within the last 5 years.
3. Grade of C or better in MTH 097 and MTH 098 or equivalent or appropriate math placement test score and one year of high school geometry.
4. Compass reading assessment score of 85 or better or an ACT reading score of 20 or higher.

**Entrance Requirements:** Clinical Laboratory Assistant

1. High school graduate or equivalent.
2. One year of high school biology with a minimum grade of C or BIO 110 or equivalent.
3. One year of high school chemistry with a minimum grade of C or CHM 101 or equivalent.
4. Two years of high school algebra with minimum grades of C or MTH 098 or equivalent.

Students who complete the clinical laboratory assistant certificate and who continue in the CLT program will receive credit for CLT 100 and CLT 120.

**Program Requirements:** Students must complete all required courses with a minimum grade of C. Prior credits in biology, chemistry, and mathematics must have been earned within the last 10 years (does not apply to entrance requirements). A completed medical form and proof of health insurance must be on file prior to beginning

clinical practicums. Students must provide their own uniform and transportation to and from all clinical sites.

**Recommended Courses:** CLT students who plan to continue their education toward a bachelor's degree in Clinical Laboratory Science should meet with a counselor to develop an educational plan.

DEGREE CONFERRED:

## ASSOCIATE OF APPLIED SCIENCE IN CLINICAL LABORATORY TECHNOLOGY

First Semester	Sem. Hrs.
BIO 240 Human Anatomy and Physiology or BIO 245 Human Anatomy and Physiology I and BIO 246 Human Anatomy and Physiology II .....	5/8
MTH 112 College Algebra .....	4
ENG 101 English Composition I .....	3
CLT 100 Introduction to Clinical Lab Technology or CLT 105 Clinical Lab Assistant Skills I and CLT 106 Clinical Lab Assistant Skills II.....	2.5/5
CLT 120 Clinical Lab Technology Practicum I** .....	(.5)
	Total 15/20.5

## Second Semester

CHM 142 General Chemistry I .....	5
ENG 102 English Composition II .....	3
Social/Behavioral Science Elective* .....	3
CLT 110 Clinical Microscopy .....	3
CLT 112 Clinical Hematology.....	3.5
	Total 17.5

## Summer

BIO 265 General Microbiology .....	4
CLT 114 Clinical Immunology .....	2.5
	Total 6.5

## Third Semester

BIO 113 Molecular and Cellular Biology or CHM 170 Elementary Organic Chemistry.....	4/5
CLT 210 Clinical Chemistry .....	3.5
CLT 212 Clinical Microbiology .....	3.5
CLT 220 Clinical Lab Technology Practicum II .....	5
	Total 16/17

## Fourth Semester

Liberal Education Elective* .....	3
CLT 214 Clinical Immunohematology .....	3
CLT 222 Clinical Lab Technology Practicum III .....	5
CLT 230 Clinical Lab Technology Conference.....	1
	Total 12

\*See page 28

CERTIFICATE CONFERRED:

## BASIC VOCATIONAL SPECIALIST IN CLINICAL LABORATORY ASSISTANT

First Semester	Sem. Hrs.
CLT 101 Phlebotomy.....	3
CLT 105 Clinical Lab Assistant Skills I .....	2
CLT 106 Clinical Lab Assistant Skills II .....	3
	Total 8

## Second Semester

CLT 120 Clinical Lab Technology Practicum I** .....	1.5
	Total 1.5

\*\*Students with one year of full-time phlebotomy experience may apply for proficiency credit for CLT 120.

• Although the course sequences as shown on this page are based on full-time enrollment, students may complete their course of study on a part-time or three-quarter time basis.

• The primary aim of these programs is to prepare students for immediate employment. However, many opportunities exist to include these courses in a bachelor's degree. See a counselor for information.

• Degrees and certificates are subject to change without notice. For the most current curricula, go to [www.elgin.edu/academics](http://www.elgin.edu/academics).