

CLINICAL LABORATORY TECHNOLOGY-PHLEBOTOMY

Phlebotomy is the collection of blood specimens using venipuncture and dermal puncture techniques. Phlebotomists are often the first member of the laboratory team that the patient encounters. For this reason, students considering a career in phlebotomy should possess good communication skills in addition to being able to perform technical procedures accurately and react professionally in critical situations. Phlebotomists work in hospitals, outpatient clinics, commercial labs, blood centers, physicians' office labs and others.

Students who complete all required phlebotomy courses with grades of C or better will receive a Basic Vocational Specialist certificate from ECC.

Entrance Requirements

Proof of High School Diploma and,
One of the following:

- Reading: Grade of C or better in RDG 091 or LTC 099, or **satisfaction of other placement criteria.**
- Grade of C or better in HPE 112 within 5 years

Program Requirements

Students must complete CLT 101 with a grade of C or better and receive a recommendation from the instructor to be eligible to continue in CLT 120. A completed medical form and proof of health insurance must be on file prior to beginning the clinical practicum. Students must provide their own uniform and transportation to and from the clinical site.

Policies and Procedures

Students applying to health professions programs must provide a valid Social Security number in order to be screened for placement on the Illinois Health Care Worker Background Check Registry. Students must be listed on this registry in order to be eligible to complete required clinical training. Students demonstrating a positive background check will be denied admission to any health professions program. A valid Social Security number is also needed to apply for licensing/certification exams.

Before attending clinical training, students must have the following documentation on file in the health professions division office: negative drug test results, completed medical form which includes proof of immunizations/titer results, and proof of health insurance coverage.

Health professions students will be required to update their drug test, TB test/TB survey, and flu vaccine on an annual basis. Students demonstrating a positive drug test will be dismissed from the health professions division.

The standards, policies and procedures of the phlebotomy program are published in the phlebotomy student handbook. Copies of the student handbook may be obtained online on the [Phlebotomy program page](#).

- Collect and process specimens correctly.
- Follow established laboratory safety policies.
- Organize and prioritize tasks appropriately.
- Follow written and verbal instructions accurately.
- Utilize critical thinking skills to collect specimens efficiently.
- Develop a sense of responsibility to the patient and employer.
- Treat colleagues and patients with respect and maintain professionalism in appearance and conduct.
- Remain adaptable to changes that occur in the profession.

Phlebotomy - Basic Vocational Specialist

Course	Title	Credit Hours
First Semester		
CLT 101	Phlebotomy	3.5
Total		3.5
Second Semester		
CLT 120	Clinical Lab Technology Practicum I	1.5
Total		1.5
Program Total		5

All CLT courses numbered 100 and above may be applied to the major field and elective requirement in the Associate in Arts and Associate in Science degrees.

CLT 100 Intro to Clinical Lab Technology (2.5) 2,1

This introductory course will familiarize the student with the professional responsibilities of the clinical laboratory technician. Units on medical terminology, laboratory safety, infection control, use of diagnostic equipment, and quality control will be covered. Students develop basic phlebotomy skills in preparation for CLT 120. (1.2) Proficiency Credit Available (2 ME) Pass/No Credit Not Available

Clinical Laboratory Technology Program

SPECIAL NOTE: Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$487.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Acceptance into Clinical Laboratory Technology program or program director consent

Semester(s) Offered: Fall

CLT 101 Phlebotomy (3.5) 2,3

Students will learn basic techniques for blood specimen collection. Units on anatomy and physiology of the circulatory system, medical terminology, specimen processing, laboratory safety, infection control, quality control, and professional skills will also be covered. Students who wish to become certified as phlebotomy technicians must also complete 1.5 credits of CLT 120. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

Clinical Laboratory Technology Program

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$622.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Admission into the Phlebotomy or Medical Assisting program.

Semester(s) Offered: Fall, Spring and Summer

CLT 105 Clinical Lab Assistant Skills I (2) 1,2

The Clinical Laboratory Assistant is an important member of the clinical laboratory team. CLAs are responsible for specimen collection and processing, reagent preparation, instrument maintenance, and performance of basic laboratory tests. Units on medical terminology, laboratory safety, infection control, use of diagnostic equipment, quality control, customer service skills, and laboratory information systems will be covered. (1.2) Proficiency Credit Available (2 ME) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$370 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Acceptance into Clinical Laboratory Assistant program or program director consent

Semester(s) Offered: Spring

CLT 106 Clinical Lab Assistant Skills II (3) 2,2

This course builds on the skills learned in CLT 105. Students will perform basic laboratory procedures in urinalysis, hematology, chemistry, microbiology, and immunology. Students who successfully complete CLT 105 and CLT 106 will be granted credit for CLT 100 in the Clinical Laboratory Technician program. (1.2) Proficiency Credit Available (2 ME) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$505 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in CLT 105 or program director consent

Semester(s) Offered: Spring

CLT 110 Clinical Microscopy (3) 2,2

Students will learn basic microscopy techniques used in performing body fluid analyses. Anatomy and physiology of the urinary system, renal disease states, diagnostic test principles and procedures, and clinical correlation of lab results will be covered. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$555 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in BIO 240 or BIO 246 and CLT 100 or CLT 106 or program director consent

Semester(s) Offered: Spring

CLT 112 Clinical Hematology (3.5) 2,3

Students will learn basic lab techniques used in performing hematology/hemostasis analyses. Hematopoiesis, hematologic disorders, diagnostic test principles and procedures, instrumentation, and clinical correlation of lab results will be covered. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE: Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$622.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in BIO 240 or BIO 246 and CLT 100 or CLT 106 or program director consent

Semester(s) Offered: Spring

CLT 114 Clinical Immunology (2.5) 2,1

Students will learn basic lab techniques used in performing serologic analyses. The immune system, the immune response in health and disease, diagnostic test principles and procedures, and clinical correlation of lab results will be covered. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE: Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$487.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in BIO 240 or BIO 246 and CLT 100 or CLT 106 or program director consent

Semester(s) Offered: Summer

CLT 120 Clinical Lab Technology Practicum I (.5-1.5) 0,1.5

(0, 1.5-1.5) Practicum I will provide the student with supervised clinical experience in a phlebotomy setting. Students who have completed CLT 101 and earn 1.5 credits of CLT 120 are eligible to take a national certification exam for phlebotomy technicians. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE: Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$352.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Program director consent

Semester(s) Offered: Fall, Spring and Summer

CLT 210 Clinical Chemistry (3.5) 2,3

Students will learn basic lab techniques used in performing biochemical analyses. Units on carbohydrates, proteins, lipids, enzymes, hormones, electrolytes, and toxicology will include diagnostic test principles and procedures, instrumentation, and clinical correlation of lab results. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE: Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$622.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in CHM 142 and CLT 100 or CLT 106 or program director consent

Semester(s) Offered: Fall

CLT 212 Clinical Microbiology (3.5) 2,3

Students will learn sterile techniques used to isolate and identify microorganisms. Antibiotic susceptibility testing and clinical correlation of lab results will be covered. Supplemental units on parasitology, mycology, and virology will be introduced. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$622.5 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in BIO 265 and CLT 100 or CLT 106 or program director consent

Semester(s) Offered: Fall

CLT 214 Clinical Immunohematology (3) 2,2

Students will learn basic lab techniques used in blood typing, compatibility testing, and antibody identification. Other functions of the blood bank including donor blood collection, screening, and component processing will be covered. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$555 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in CLT 114 or program director consent

Semester(s) Offered: Spring

CLT 220 Clinical Lab Technology Practicum II (5) 0,15

Practicum II will provide the student with supervised experience in a clinical laboratory. Student rotations will be scheduled in hematology and chemistry departments. (1.2) Proficiency Credit Available (EIST) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$825 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in CLT 110, CLT 112 and CLT 210 or program director consent

Semester(s) Offered: Fall

CLT 222 Clinical Lab Technology Pract III (5) 0,15

Practicum III will provide the student with additional supervised experience in a clinical laboratory. Student rotations will be scheduled in immunology, microbiology, and blood bank departments. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE:Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$825 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in CLT 114, CLT 212, and CLT 214 or program director consent

Semester(s) Offered: Spring

CLT 230 Clinical Lab Technology Conference (1) 1,0

This capstone course will cover management and education topics related to clinical laboratory science. Students will prepare resumes, design and operate a mock laboratory, and review for certification exams. (1.2) Proficiency Credit Available (2 EST) Pass/No Credit Not Available

SPECIAL NOTE: Students enrolled in this program are required to have the following: 1) criminal background check, 2) drug test, 3) lab tests to prove immunity to common illnesses, 4) TB test, 5) health insurance, 6) uniform, 7) fully vaccinated for COVID-19. Explore the Clinical Laboratory Technology Program and come to an **information session**.

In-District Tuition/Fees: \$285 (effective 2024/25 academic year)

In-district tuition rates are subject to change based on Board approval.

Prerequisite: Grade of C or better in CLT 120 and CLT 220 or program director consent

Semester(s) Offered: Spring