

# CLINICAL LABORATORY TECHNOLOGY (CLT)

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:** \$495 (effective 2025/26 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**

\*Effective Summer 2025 this course will be withdrawn\* Students will learn basic techniques for blood specimen collection.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**

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**In-District Tuition/Fees:** \$633 (effective 2025/26 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:** \$376 (effective 2025/26 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:** \$514 (effective 2025/26 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:** \$564 (effective 2025/26 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:** \$633 (effective 2025/26 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:** \$495 (effective 2025/26 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) 0,1.5**

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:** \$219 (effective 2025/26 academic year)

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

**Prerequisite:** \*\*Course Active effective 2025 Summer Term\*\* Prerequisite: Grade of C or better in CLT 100 or 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:** \$633 (effective 2025/26 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:** \$633 (effective 2025/26 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:** \$564 (effective 2025/26 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:** \$840 (effective 2025/26 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:** \$840 (effective 2025/26 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:** \$288 (effective 2025/26 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