



# Medical Laboratory

Approved by New York State Education Department (NYSED)



MEDICAL LABORATORY includes instruction in the skills necessary for entry level employment as a health care professional or for further education in a post-secondary institution. Students will be involved in medical terminology, measuring vital signs, electrocardiography (EKG), laboratory lessons in hematology, blood banking, chemistry, urinalysis, microbiology and phlebotomy. Second year students who meet all standards have an opportunity to participate in a hospital internship.

## Work Environment

Laboratory tests play an important part in the detection, diagnosis, and treatment of many diseases. Medical laboratory workers, often called clinical laboratory workers, assist in the performance of tests under the direction of pathologists, medical technologists, and/or medical technicians. These tests are generally performed with a scientific team in modern surroundings on samples of blood, tissues, and body fluids to detect changes caused by various disease states. Laboratories are generally well lighted, clean, and present a pleasant atmosphere. Students will work with patients and, many times, follow their progress.

## Career Opportunities

Doctors' Offices  
Hospitals  
Health Clinics  
Medical Labs  
Industry  
Phlebotomists  
Medical Clerks

## Advanced Standing Available\*

Five Towns College  
SUNY Canton  
Wilson Tech Adult Program

\*College credits may be earned by meeting the criteria of articulation agreements (see listing in Handbook) Tech has established with SELECT colleges. In addition, check directly with the post-secondary institutions for any additional credits they may offer.

## Helpful Preparatory Courses

- Living Environment
- Chemistry

## Academic Credits integrated:

Tech Math, Tech Phys Sci, Eng 12, Health, CFM, Comp App

## CTE Endorsement

Students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, be High School diploma eligible, and pass the following exam: National Center for Competency Testing (NCCT) - Phlebotomy Technician Exam

## Student Supplies

Additional supplies will need to be purchased for this program including a uniform.

## Average Annual Wage

Salaries are subject to market fluctuations.

For the most current updates on local & national wages go to job search engines on the internet and [www.careerzone.ny.gov](http://www.careerzone.ny.gov)

## Course Outline

- Orientation to the Medical Lab
- Basic Anatomy and Physiology
- Use/Care of Lab Equip.
- Blood Pressures/TPR
- Electrocardiography
- Infection Control
- Microbiology
- Urinalysis
- Introduction to Parasitology
- Blood Banking
- Blood Chemistry
- Hematology
- Phlebotomy
- Specimen Processing
- Standard Precautions
- Study Skills
- Telephone Comm.
- Resumé writing and job applications
- Applied language and math skills
- Interview Skills
- Clinical Internship