



# Medical Laboratory

approved by NYS Education Department



MEDICAL LABORATORY includes instruction in the skills necessary for entry level employment as a health care professional. Students learn 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	EKG Technicians
Health Clinics	HMO's
Hospitals	Industry
Laboratory Assist.	Medical Clerks
Phlebotomists	Private Lab

## Advanced Standing Available\*

Farmingdale State University of NY  
Pennsylvania College of Technology  
SBI Campus  
SUNY Canton

\*Advanced Standing may be available to those who successfully complete this Tech course. See Articulation Agreements on page 49.

## Employment Outlook

According to government statistics, the demand for medical laboratory workers continues to be excellent because physicians are making wider use of laboratory tests in routine physical checkups and in the diagnosis and treatment of disease. Indirectly influencing growth in the field are the following: greater health con-

sciousness, population growth, and expansion of prepayment programs for medical care to make it easier for people to pay for services.

**Starting Salaries:** \$34,000/year, depending on experience and conditions, with a 40-hour work week. Jobs may include evening or night hours and/or weekend duty. Part-time work is generally available.

## Student Supplies

1. Calculator
2. Lab Coat
3. Scrubs, top and pants
4. Navy blue zipper front tunic top, white pants
5. Nursing shoes
6. Name pin
7. Physical examination
8. Watch with second hand (not digital)

## Helpful Preparatory Courses

- Biology
- Chemistry

## Academic credits integrated:

- Technical Math
- Technical Science
- English 12
- Economics/Participation in Gov't
- Health

## CTE Endorsement

In order to be granted the Technical Diploma endorsement, students must successfully meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, including Career and Financial Management (CFM), and pass the following national certification exam: (NCCT) National Center for Competency Testing Exam (NCCT) - Phlebotomy Technician and complete the clinical internship.

## Course Outline

- Orientation to the Medical Lab
- Basic Anatomy and Physiology
- Use/Care of Lab Equip.
- Intro. to Genetics
- Application of DNA based tests in health
- Basic First Aid
- Blood Pressures/TPR
- Intro. to Computers
- Electrocardiography
- Infection Control
- Microbiology
- Urinalysis, Serology
- Blood Banking, Hematology
- Blood Chemistry
- Blood Drawing
- Universal Precautions
- Study Skills
- Telephone Comm.
- Intro. to Pharmacology
- Letter writing, filing, typing
- Applied language and math skills
- Office Experience
- Clinical Internship

## Consider these classes at Tech

- Medical Assisting
- Nurse Assisting/Prof. Health Careers
- Veterinary Assisting

All placements are based upon individual needs and approval from the district and parent/guardian.