



HEALTHCARE SCIENCE

A GUIDE TO PURSUING YOUR CAREER PATH

DIAGNOSTICS/PHLEBOTOMY >>>

The Diagnostics pathway provides career opportunities for persons with a strong interest in the initial diagnostic phase of health problems. This phase includes procedures such as x-rays, fluoroscopies, sonograms, and clinical laboratory tests examining blood and other body fluids. Workers in this pathway discover "evidence" that physicians use to make correct diagnoses and administer appropriate treatment. Occupations are increasingly more varied because of complex new technology seeking to explain how the human body works.

Clinical laboratory testing is critical in the detection and diagnosis of disease. Laboratory personnel examine and analyze body fluids and cells using complex chemical, blood, immunologic, and bacteriological tests. Technologists evaluate test results and monitor programs to ensure accuracy of tests. Technicians perform less complex tests using automated analyzers or tests in accordance with detailed instructions.

HIGH SCHOOL PATHWAY CLASSES >>>

INTRO TO HEALTHCARE SCIENCE enables students to glean initial exposure to the many HCS careers. The concepts of human growth & development, interaction with patients & family members, health, wellness, and preventative care are evaluated, as well as the legal, ethical responsibilities of today's healthcare provider. Fundamental skills development include microbiology, basic life support and first aid.

ESSENTIALS OF HEALTHCARE is a medical-focused anatomy course and we address the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. **Students earning this course will also receive credit for Human Anatomy & Physiology.**

DIAGNOSTICS PHLEBOTOMY is designed to help students become prepared for the phlebotomy technician certification exam, upon completion of all required components. Topics covered in this course include employability skills, careers, terminology and equipment, safety and compliance, quality assurance, site-specific anatomy, patient preparation for venipuncture, performing of venipuncture, and special processing and transport. During this course, simulated venipuncture may be performed. However, for national certification, live sticks are required.



CAPSTONE: WBL INTERNSHIP >>>

WBL (WORK-BASED LEARNING) connects skilled, knowledgeable and driven students to local businesses every year. Students who participate in the Healthcare Science program and have been selected to participate in WBL will leave school early to work with our fantastic business partners. Benefits to students include a chance to put skills learned in the classroom to use in an authentic setting, getting a competitive advantage on their career and networking with industry leading professionals all while still in high school. www.hallcowbl.org



CAREER TECH STUDENT ORGANIZATIONS >>>

HOSA operates as an integral component of the health science education curriculum. Through its network of state and local chapters, HOSA provides powerful instructional tools, recognition, leadership, networking, scholarships, and connections to the healthcare industry to thousands of members across the United States.

Through the HOSA Competitive Events Program, members can compete in teams or as individuals in over 55 different events related to all aspects of the health care industry. HOSA integrates into the Health Science Technology Education curriculum to develop and recognize smart, dedicated, and passionate future health professionals.



POTENTIAL CAREERS >>>

National labor market information indicates that 8 out of the top 20 fastest-growing occupations are in the Health Science industry. (OOH)

- Phlebotomists
- Medical Lab Assistants
- Patient Service Techs (PST)
- Phlebotomy Supervisors
- Registered Nurses
- Information Nurse Specialists
- Nuclear Techs
- Registered Nurses
- Physicians
- Respiratory Technicians
- Radiologic Technologists

DIAGNOSTICS/PHLEBOTOMY

CAREER PATHWAY - PLAN OF STUDY

GRADUATION REQUIREMENTS

ENGLISH/LANGUAGE ARTS

4 Units *Must Include:*

9th Grade Literature & American Literature

SOCIAL STUDIES

3 Units *Must Include:*

World History, US History, Government & Economics

MATHEMATICS

4 Units *Must Include:*

GSE Algebra I, GSE Geometry & GSE Algebra II

+

one additional GSE/AP/IB/DE Math course

OR

GSE Accelerated Algebra I/Analytic Geometry A,

GSE Accelerated Geometry B/Algebra II, GSE Precalculus

+

one additional GSE/AP/IB/DE Math course

SCIENCE

4 Units *Must Include:*

Physical Science or Physics; Biology;

Chemistry, Earth Systems, Environmental Science or AP/IB course

+

one additional Science course

HEALTH & PERSONAL FITNESS

1 Unit *Must Include:*

1/2 unit of each

CAREER, TECHNICAL & AGRICULTURE EDUCATION (CTAE)

3 Units *Must include:*

Intro to Healthcare Science, Essentials of Healthcare,

Diagnostics Phlebotomy

ELECTIVES

4 Units

*Students planning to attend most post-secondary institutions must take 2 units of the same modern language.

TOTAL UNITS REQUIRED

23 Units

PERSONAL APTITUDES

ACTIVITIES THAT DESCRIBE WHAT I LIKE TO DO:

- Work under pressure.
- Help sick people and animals.
- Participate in health and science classes.
- Respond quickly and calmly in emergencies.
- Work as a member of a team.



PERSONAL QUALITIES THAT DESCRIBE ME:

- Compassionate and caring
- Good at following directions
- Conscientious and careful
- Patient
- Good Listener

WANT MORE INFORMATION ON YOU?

YouScience is the science of YOU – how your mind is wired, what makes you tick, the skills and knowledge that set you apart. You have talent and there's a path that's right for you – we can help you find it.



Login to Infinite Campus and locate the SLDS Portal link on the left. Once logged in, click on "My Career Plan" then choose "Go to YouScience".

WHAT YOU LEARN IN SCHOOL MATTERS

You're learning skills and knowledge that can make you a qualified candidate for in-demand careers. Industry-recognized certifications, available to all pathway students, are great signals to employers that you have the skills they're looking for. Certifications help validate what you know, so other people know, that you know it.

QUESTIONS?

Contact your CTAE teacher, WBL Coordinator or School Counselor

PATHWAY TO FUTURE CAREER OPTIONS

HIGH SCHOOL

Pathway Courses

Intro to Healthcare Science
Essentials of Healthcare
Diagnostics Phlebotomy

Capstone

WBL Internship
Dual Enrollment

POST-SECONDARY

Technical College

Certificate
Diploma Program
Degree Program

4 Year College/University

Bachelor Degree
Masters Degree
Graduate Studies