

Diagnostic Services

Diagnostic Services is a one-credit course designed to inform students of the rapid changes in business and industry by offering a rigorous array of course work and work-based experiences to help prepare them for advanced learning and a wide range of health career opportunities. This course is designed to provide the local education agency flexibility to meet healthcare demands in the community. Students are introduced to careers in diagnostic services including, but not limited to, electrocardiograph technician, medical laboratory technologist, radiography technician, pathologist, cardiovascular technician, and others.

Career and technical student organizations are integral, cocurricular components of each career and technical education course. These organizations serve as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Career Opportunities

Students will:

1. Trace the history of selected diagnostic services careers.
2. Compare roles and responsibilities of various diagnostic services careers.
Examples: job description, salary, education and training, occupational outlook
3. Assess safe practices necessary in diagnostic services.
Examples: infection control, radiation protection, laboratory safety

Legal and Ethical Aspects

4. Apply legal and ethical behaviors necessary in diagnostic services careers.
Examples: informed consent, confidentiality

Anatomy

5. Identify human structures and functions as they relate to diagnostic services.
Examples: structures—gastrointestinal (GI) system, cardiovascular systems
diagnostic services—upper GI series, echocardiogram

Diseases and Disorders

6. Identify diseases and disorders commonly associated with diagnostic services careers.
Examples: streptococcus pharyngitis, cardiac arrhythmias, fractures

Mathematics Concepts

7. Use mathematics concepts in diagnostic settings, including numeric conversions, ratios, and proportions.

Medical Procedures

8. Explain medical procedures related to diagnostic services careers.
Examples: arteriogram, transtelephonic monitoring
9. Demonstrate clinical and technical skills necessary in diagnostic services.
Examples: performing a rapid strep test, recording an electrocardiogram, measuring visual acuity
10. Utilize technology in a therapeutic career setting.
Examples: transtelephonic monitor, wireless computer