

# Health Science Career Cluster

The Health Science career cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.



## Biomedical Science (WHS) Statewide Program of Study



The **Biomedical Science** program of study focuses on occupational and educational opportunities associated with the study of biology and medicine. This program of study includes researching and diagnosing diseases, pre-existing conditions, and other determinants of health. Students will also practice patient care and communication.



### Secondary Courses for High School Credit

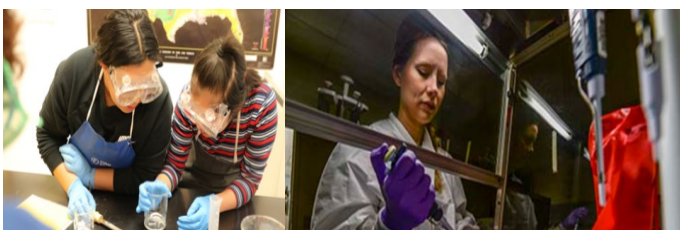
Level 1	T924 Principles of Biomedical Science (1/YL)
Level 2	T925 Human Body Systems (1/YL)
Level 3	T926 Medical Intervention (1/YL)
Level 4	T927 Biomedical Innovation (1/YL)

### Work-Based Learning and Expanded Learning Opportunities

<b>Work-Based Learning Activities</b>	<ul style="list-style-type: none"> <li>Intern with a biological or medical scientist at a healthcare organization or health research company to learn scientific testing methods</li> <li>Shadow a clinical laboratory technician to observe laboratory testing processes</li> </ul>
<b>Expanded Learning Opportunities</b>	<ul style="list-style-type: none"> <li>Participate in Health Occupations Students of America (HOSA)</li> </ul>

### Aligned Industry-Based Certifications

- Biotechnician Assistant Credentialing Exam (BACE)



### Example Postsecondary Opportunities

#### Apprenticeships

- Medical Laboratory Technician

#### Associate Degrees

- Biotechnology
- Biological Sciences

#### Bachelor's Degrees

- Biology
- Cellular and Molecular Biology

#### Master's, Doctoral, and Professional Degrees

- Forensic Science and Technology
- Biomedical Sciences

#### Additional Stackable IBCs/License

- Cytotechnologist



### Example Aligned Occupations

#### Medical Equipment Preparers

Median Wage: \$38,827  
Annual Openings: 519  
10-Year Growth: 18%

#### Forensic Science Technicians

Median Wage: \$56,971  
Annual Openings: 249  
10-Year Growth: 22%

#### Biological Technicians

Median Wage: \$45,787  
Annual Openings: 879  
10-Year Growth: 14%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

For more information visit: <https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>

Successful completion of the Biomedical program of study will fulfill requirements of the Public Services endorsement or the STEM endorsement if the math and science requirements are met.

