

Health Science Career Cluster

Revised – March 2024



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.

Statewide Program of Study: *Health Informatics*

The Health Informatics program of study focuses on occupational and educational opportunities associated with the management and use of patient information in the healthcare field. This program of study includes exploration of computerized healthcare systems and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students will also practice writing and interpreting medical reports.



Secondary Courses for High School Credit

- | | |
|----------------|---|
| Level 1 | <ul style="list-style-type: none"> Principles of Health Science Principles of Health Informatics Business Information Management I Business Information Management I + Business Lab |
| Level 2 | <ul style="list-style-type: none"> Medical Terminology Medical Intervention Evaluation and Research Public Health (TBD) |
| Level 3 | <ul style="list-style-type: none"> Health Informatics Healthcare Administration and Management Health Science Theory Health Science Theory + Health Science Clinical |
| Level 4 | <ul style="list-style-type: none"> World Health and Emerging Technologies Mathematics for Medical Professionals Medical Billing and Coding Practicum in Health Science Practicum in Health Science + Extended Practicum in Health Science Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation Career and Technical Education Project-Based Capstone |

Aligned Advanced Academic Courses

AP or IB	AP Statistics
Dual Credit	Dual credit offerings will vary by Local Education Agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards Concentrator/Completer status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	<ul style="list-style-type: none"> Intern with a medical records specialist or health services manager Job shadow a medical services manager to understand how services and facilities are managed
Expanded Learning Opportunities	<ul style="list-style-type: none"> Participate in HOSA, DECA, SkillsUSA, or BPA

Aligned Industry-Based Certifications

- Certified Billing and Coding Specialist (CBCS)
- Certified Coding Associate
- Insurance and Coding Specialist
- Medical Coding and Billing Specialist
- Nationally Certified Medical Coding and Billing Specialist



Example Postsecondary Opportunities

Apprenticeships

- Medical Coder

Associate Degrees

- Health Information/Medical Records Technology
- Medical Assisting

Bachelor's Degrees

- Nursing Administration
- Medical Insurance Coding

Master's, Doctoral, and Professional Degrees

- Nursing Administration
- Hospital and Health Care Facilities Administration

Additional Stackable IBCs/Licensures

- Consumer Health Information Specialization – Level I



Example Aligned Occupations

Medical Secretaries/ Administrative Assistants

Median Wage: \$36,994
Annual Openings: 10,505
10-Year Growth: 21%

Medical Records Specialists

Median Wage: \$39,408
Annual Openings: 2,763
10-Year Growth: 18%

Medical and Health Services Managers

Median Wage: \$102,937
Annual Openings: 4,787
10-Year Growth: 43%

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>



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Statewide Program of Study: *Health Informatics*

Course Information

Level 1

Course	Prerequisites Corequisites	Career Clusters
Principles of Health Science* 13020200 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Principles of Health Informatics N1302108 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Business Information Management I 13011400 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Touch Systems Data Entry Recommended corequisites: Business Lab	
Business Information Management I + Business Lab 13011410 (2 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	

Level 2

Course	Prerequisites Corequisites	Career Clusters
Medical Terminology* 13020300 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Public Health TBD	Prerequisites: TBD Corequisites: TBD Recommended Prerequisites: TBD Recommended corequisites: TBD	
Medical Intervention Evaluation and Research N1302125 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Principles of Health Informatics or Principles of Health Science Recommended corequisites: None	

Level 3

Course	Prerequisites Corequisites	Career Clusters
Health Informatics 13020960 (1 credit)	Prerequisites: Medical Terminology Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Healthcare Administration and Management 13020962 (1 credit)	Prerequisites: Medical Terminology Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Health Science Theory* 13020400 (1 credit)	Prerequisites: One credit in Biology and at least one credit in a course from the Health Science career cluster Corequisites: None Recommended Prerequisites: None Recommended corequisites: Health Science Clinical	
Health Science Theory + Health Science Clinical* 13020410 (2 credits)	Prerequisites: Biology Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	

* Indicates course is included in more than one program of study.

For additional information on the **Health Science career cluster**, contact cte@tea.texas.gov or visit <https://tea.texas.gov/cte>



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Course Information

Level 4

Course	Prerequisites Corequisites	Career Clusters
World Health and Emerging Technologies 13020900 (1 credit)	Prerequisites: One credit in Biology and at least one credit in a Level 2 or higher course from the Health Science career cluster Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Mathematics for Medical Professionals* 13020970 (1 credit)	Prerequisites: Geometry and Algebra II Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Medical Billing and Coding 13020964 (1 credit)	Prerequisites: Medical Terminology Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Practicum in Health Science* First Time Taken: 13020500 (2 credits) Second Time Taken: 13020510 (2 credits)	Prerequisites: Health Science Theory and Biology Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Practicum in Health Science + Extended Practicum in Health Science* First Time Taken: 13020505 (3 credits) Second Time Taken: 13020515 (3 credits)	Prerequisites: Health Science Theory and Biology Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Career Preparation for Programs of Study* (2 credits)	Prerequisites: At least one level 2 or higher Career and Technical Education course Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Career Preparation for Programs of Study + Extended Career Preparation* (3 credits)	Prerequisites: At least one level 2 or higher Career and Technical Education course Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	
Career and Technical Education Project-Based Capstone* (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended corequisites: None	

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