

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.

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 Principles of Health Science
 - Principles of Health Informatics
 - Foundations of Business Communication and Technologies
 - Foundations of Business Communication and Technologies + Business Lab
- **Level 2** Medical Terminology
 - · Medical Intervention Evaluation and Research
- **Level 3** Health Informatics
 - Healthcare Administration and Management
 - Health Science Theory
 - Health Science Theory + Health Science Clinical
- Level 4 •
- · World Health and Emerging Technologies
 - · Mathematics for Medical Professionals
 - · Medical Billing and Coding
 - Career and Technical Education Project-Based Capstone
 - · 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

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

- 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

Participate in HOSA, DECA, SkillsUSA, or BPA

Aligned Industry-Based Certifications

- Certified Billing and Coding Specialist (CBCS)
- Certified Coding Associate (CCA)
- Certified Electronic Health Records Specialist (CEHRS)
- Certified Inpatient Coder (CIC)
- Certified Outpatient Coder (COC)
- Certified Professional Biller (CPB)
- Certified Professional Coder (CPC)
- Certified Risk Adjustment Coder (CRC)
- Dual CPC and CPB Certification

- Electronic Health Record Certification (EHRC)
- Insurance and Coding Specialist
- Medical Administrative Assistant
- Medical Coding and Billing Certification
- Nationally Certified Medical Coding and Billing Specialist
- Registered Health Information Technician (RHIT)
- Registered Healthcare Documentation Specialist (RHDS)



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/License

Consumer Health Information Specialization – Level I



Example Aligned Occupations

Medical Secretaries and Administrative Assistants

Median Wage: \$38,431 Annual Openings: 7,300 10-Year Growth: 21%

Medical Records Specialists

Median Wage: \$44,176 Annual Openings: 1,812 10-Year Growth: 18%

Medical and Health Services Managers

Median Wage: \$105,461 Annual Openings: 6,080 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/hs-health-informatics-



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Statewide Program of Study: Health Informatics

Course Information

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	
Foundations of Business Communication and Technologies 13011400 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: Touch System Data Entry Recommended Corequisites: Business Lab	
Foundations of Business Communication and Technologies + Business Lab 13011410 (2 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: Touch System Data Entry Recommended Corequisites: None	

Course	Prerequisites Corequisites	Career Clusters
Medical Terminology* 13020300 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	₩
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	

^{*} Indicates course is included in more than one program of study in this career cluster.





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Statewide Program of Study: Health Informatics

Course Information

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

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	
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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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Statewide Program of Study: Health Informatics

Course Information

Course	Prerequisites Corequisites	Career Clusters
Career and Technical Education Project-Based Capstone* First Time Taken: 12701101 (1 credit)	Prerequisites: None 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* First Time Taken: 12701121 (2 credits)	Prerequisites: At least one Level 2 or higher CTE course Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	
Career Preparation for Programs of Study + Extended Career Preparation* First Time Taken: 12701141 (3 credits)	Prerequisites: : At least one Level 2 or higher CTE course Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	

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