CTE Programs of Study Frameworks

School Year 2024 - 2026

Architecture and Construction
- Architectural Drafting and Design

Arts, Audio/Visual Technology, and Communications
- Digital Communications
- Graphic Design and Interactive Media

Business, Marketing, and Finance
- Accounting and Financial Services
- Business Management
- Entrepreneurship
- Marketing and Sales

Education and Training
- Teaching and Training

Engineering
- Civil Engineering
- Drone (Unmanned Vehicle)
- Electrical Engineering
- Engineering Foundations
- Mechanical & Aerospace Engineering

Health Science
- Diagnostic & Therapeutic Science*
- Exercise Science, Wellness & Restoration
- Nursing Science
- Fire Academy

Hospitality and Tourism
- Culinary Arts

Human Services
- Cosmetology and Personal Care Services
- Family and Community Services
- Health and Wellness

Information Technology
- Cybersecurity
- Information Technology Support and Services
- Networking Systems
- Programming & Software Development
- Web Development

Law and Public Service
- Law Enforcement
- Legal Studies

Manufacturing
- Robotics & Automation Technology
- Welding

Transportation, Distribution, and Logistics
- Automotive

Non-Discrimination Policy
It is the policy of Hurst-Euless-Bedford ISD not to discriminate on the basis of race, color, national origin, sex or handicap, in its career and technology (vocational) programs, services or activities and provide equal access to the Boy Scouts and other designated youth programs as required by Title VI of the civil rights act of 1964, as amended: Title IX of the Education Amendments of 1972: and section 504 of the Rehabilitation Act of 1973, as amended. Hurst-Euless-Bedford ISD will take steps to assure that lack of English language skills not be a barrier to admission and participation in all educational and career and technology (vocational) programs. Admission to these programs is based on interest and aptitude, age appropriateness and class space availability.
HEB ISD Programs of Study Career Clusters

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FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER,
PLEASE CONTACT:
HEB ISD Career & Technical Education Department

https://www.hebisd.edu/departments/career-technical-education/career-technical-education

https://tea.texas.gov/cte

Students completing two or more courses for two or more credits within a program of study earn **concentrator** status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn **completer** status for federal & state accountability reporting.
Architecture and Construction Career Cluster

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber and heating, air conditioning and refrigeration technician.

Statewide Program of Study: Architectural Drafting and Design

The Architectural Drafting and Design program of study focuses on occupational and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study includes reading, interpreting, and drawing blueprints for interior and exterior construction projects.

Secondary Courses for High School Credit

**Level 1**

**Level 2**
- *Interior Design I*
- *Architectural Design I*

**Level 3**
- Honors Interior Design II
- Honors Architectural Design II

**Level 4**
- Honors Practicum in Interior Design + Honors Extended Practicum in Interior Design
- Honors Practicum in Architectural Design + Honors Extended Practicum in Architectural Design

*An Honors (Tier II) option is available for this course.

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>Dual Credit</th>
<th>Dual credit offerings will vary by Local Education Agency.</th>
</tr>
</thead>
</table>

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 toward completion status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

**Work-Based Learning Activities**
- Intern at an architectural firm to develop CADD drafting and design technology skills
- Shadow a civil engineer to learn more about their day-to-day responsibilities

**Expanded Learning Opportunities**
- Conduct an informational interview with an architect to learn about their role and responsibilities
- Participate in a CTSO (Career & Technical Education Student Organization)

Industry-Based Certifications

- Autodesk Associate (Certified User) 3ds MAX
- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Fusion 360
- Autodesk Associate (Certified User) AutoCAD

Non-Discrimination Statement: Hurst-Euless-Bedford ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Luke DeFilippis, Title IX Coordinator - lukedefilippis@hebsisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Example Postsecondary Opportunities

**Apprenticeships**
- Drafter

**Associate Degrees**
- CAD/CADD Drafting and/or Design Technology
- Drafting and Design Technology
- Surveying Technology/Surveying
- Architectural Drafting and Architectural CAD/CADD

**Bachelor’s Degrees**
- Civil Engineering
- Construction Engineering
- Surveying Engineering
- Drafting and Design Technology

**Master’s, Doctoral, and Professional Degrees**
- Civil Engineering
- Geographic Information Science and Cartography
- Construction Engineering Technology

Example Aligned Occupations

**Architectural and Civil Drafters**
- Median Wage: $57,424
- Annual Openings: 1,366
- 10-Year Growth: 15%

**Architects**
- Median Wage: $80,903
- Annual Openings: 966
- 10-Year Growth: 18%

**Construction Managers**
- Median Wage: $95,072
- Annual Openings: 6,325
- 10-Year Growth: 24%


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

Successful completion of the Architectural Drafting and Design program of study will fulfill requirements of the business and industry endorsement.
Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal & state accountability reporting.

For additional information on the Arts, Audio/Visual Technology, and Communications Career Cluster, please contact:

HEB ISD Career & Technical Education Department

https://www.hebisd.edu/departments/career-technical-education/career-technical-education

https://tea.texas.gov/cte
**Arts, Audio Visual Technology and Communication Career Cluster**

The Arts, Audio Visual Technology and Communication (AV/TC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

**Statewide Program of Study: Digital Communications**

The Digital Communications program of study focuses on occupational and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. The program of study includes operating machines and equipment such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment to record sound and images.

### Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Professional Communications</td>
</tr>
<tr>
<td>2</td>
<td>Audio/Video Production I</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship I</td>
</tr>
<tr>
<td>3</td>
<td>Audio/Video Production II + Audio/Video Production II Lab</td>
</tr>
<tr>
<td>4</td>
<td>Honors Practicum in Audio/Video Production + Honors Extended Practicum in Audio/Video Production</td>
</tr>
</tbody>
</table>

### Aligned Advanced Academic Courses

**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**

- Shadow a sound designer to learn how sound and folly is created for movies or podcasts
- Intern with a technical director at a sports team, recording studio, or radio station
- Shadow a technician on a live news broadcast, concert, or other event

**Expanded Learning Opportunities**

- Participate in CTSO (Career & Technical Education Student Organization)
- Participate in Student Television Network
- Capture and edit film and audio for a podcast with a local community organization

### Aligned Industry-Based Certifications

- Adobe Certified Professional in Digital Video Using Adobe Premiere Pro
- Adobe Certified Professional in Visual Design Using Adobe Photoshop

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NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Digital Communications program of study will fulfill requirements of the Business and Industry endorsement.

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**Example Postsecondary Opportunities**

**Apprenticeships**

- Light Technician

**Associate Degrees**

- Commercial and Advertising Art
- Animation, Interactive Technology, Video Graphics, and Special Effects

**Bachelor’s Degrees**

- Cinematography and Film/Video Production
- Recording Arts Technology

**Master’s, Doctoral, and Professional Degrees**

- Animation, Interactive Technology, Video Graphics, and Special Effects
- Communications Technology

**Additional Stackable IBs/Licenses**

- CompTIA Digital Media and Entertainment Professional Certification (DMEP)

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**Example Aligned Occupations**

**Camera Operators, Television, Video, and Film**

- Median Wage: $48,422
- Annual Openings: 155
- 10-Year Growth: 20%

**Audio and Video Technicians**

- Median Wage: $46,319
- Annual Openings: 626
- 10-Year Growth: 30%

**Producers and Directors**

- Median Wage: $65,029
- Annual Openings: 522
- 10-Year Growth: 12%

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Arts, Audio Visual Technology and Communication Career Cluster

The Arts, Audio Visual Technology and Communication (AVTC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

Statewide Program of Study: Graphic Design and Interactive Media

The Graphic Design and Interactive Media program of study focuses on occupational and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. The program of study includes designing clothing and accessories, creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in computer games, movies, music videos, and commercials.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Video Game Design</td>
</tr>
<tr>
<td>• Digital Media</td>
</tr>
<tr>
<td>• Video Game Programming</td>
</tr>
<tr>
<td>• Graphic Design and Illustration I</td>
</tr>
<tr>
<td>• Animation I</td>
</tr>
<tr>
<td>• Commercial Photography I</td>
</tr>
<tr>
<td>• Entrepreneurship I</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Advanced Video Game Programming</td>
</tr>
<tr>
<td>• Graphic Design and Illustration II + Graphic Design and Illustration II Lab</td>
</tr>
<tr>
<td>• Animation II + Animation Lab</td>
</tr>
<tr>
<td>• Commercial Photography II</td>
</tr>
<tr>
<td>• Entrepreneurship II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Honors Practicum in Graphic Design and Illustration + Honors Extended Practicum in Graphic Design and Illustration</td>
</tr>
<tr>
<td>• Honors Practicum in Animation + Extended Practicum in Animation</td>
</tr>
<tr>
<td>• Honors Practicum in Commercial Photography + Honors Extended Practicum in Commercial Photography</td>
</tr>
<tr>
<td>• Honors Independent Study in Technology Applications</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Honors Practicum in Graphic Design and Illustration + Honors Extended Practicum in Graphic Design and Illustration</td>
</tr>
<tr>
<td>• Honors Practicum in Animation + Extended Practicum in Animation</td>
</tr>
<tr>
<td>• Honors Practicum in Commercial Photography + Honors Extended Practicum in Commercial Photography</td>
</tr>
<tr>
<td>• Honors Independent Study in Technology Applications</td>
</tr>
</tbody>
</table>

Aligned Advanced Academic Courses

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 Concentration/Completion status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

• Shadow an art director at a branding firm or design agency
• Intern in the marketing and communications department of a technology company

Expanded Learning Opportunities

• Participate in CTEO (Career & Technical Education Student Organization)
• Participate in Student Television Network
• Join a related co-curricular or extracurricular club such as web development or computer coding

Aligned Industry-Based Certifications

• Adobe Certified Professional in Digital Video Using Adobe Premiere Pro
• Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
• Adobe Certified Professional in Visual Design Using Adobe Photoshop
• Autodesk Associate (Certified User) 3ds MAX
• Certified Entry-Level Python Programmer (CELP)
• Certified User: Programmer
• Certified Python Level II Certification

Example Postsecondary Opportunities

Associate Degrees

• Graphic Design
• Digital Arts

Bachelor’s Degrees

• Web Page, Digital/Multimedia and Information Resources Design
• Design and Visual Communications

Master’s, Doctoral, and Professional Degrees

• Game and Interactive Media Design
• Animation, Interactive Technology, Video Graphics, and Special Effects

Additional Stackable IBs/Licenses

• Certified Textile Designer (CTD)

Example Aligned Occupations

Software Developers

Median Wage: $111,705
Annual Openings: 15,324
10-Year Growth: 36%

Graphic Designers

Median Wage: $50,973
Annual Openings: 1,766
10-Year Growth: 10%

Art Directors

Median Wage: $81,926
Annual Openings: 619
10-Year Growth: 18%

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NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Graphic Design and Interactive Media program of study will fulfill requirements of the Business and Industry endorsement.
Students completing two or more courses for two or more credits within a program of study earn **concentrator** status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn **completer** status for federal & state accountability reporting.

FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING, AND FINANCE CAREER CLUSTER, PLEASE CONTACT:

HEB ISD Career & Technical Education Department

https://www.hebisd.edu/departments/career-technical-education/career-technical-education

https://tea.texas.gov/cte
Business, Marketing, and Finance Career Cluster

The Business, Marketing, and Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur, to accountant, retail manager and market analyst.

Statewide Program of Study: Accounting and Financial Services

The Accounting and Financial Services program of study focuses on occupational and educational opportunities associated with examining, analyzing, and interpreting financial records. It includes exploration of financial services, preparing financial statements, auditing financial statements prepared by others, and interpreting accounting records. This program of study also introduces students to mathematical modeling tools.

### Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Courses</th>
</tr>
</thead>
</table>
| Level 1 | Principles of Business, Marketing, and Finance  
Business Information Management I |
| Level 2 | Accounting I  
Entrepreneurship I |
| Level 3 | Accounting II |
| Level 4 | Practicum in Business Management + Extended Honors Practicum in Business Management |

### Aligned Advanced Academic Courses

| AP or IB | IB Mathematics Analysis and Approaches SL  
IB Mathematics Analysis and Approaches HL |
| Dual Credit | Dual credit offerings will vary by Local Educational 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**
- Intern with a public certified accountant (CPA) at a local business  
- Intern with a city or county auditor’s office  
- Shadow a financial advisor as an intern at an investment company

**Expanded Learning Opportunities**
- Participate in a CTSO (Career & Technical Education Student Organization)  
- Explore student membership in professional organizations such as AICPA, CIMA, or TXCPA

### Aligned Industry-Based Certifications

- Microsoft Office Specialist: Microsoft Excel Expert (Excel 2019)

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Business, Marketing, and Finance Career Cluster

The Business, Marketing, and Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur to accountant, retail manager, and market analyst.

Statewide Program of Study: Business Management

The Business Management program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources. This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.

Secondary Courses for High School Credit

| Level 1 | · Principles of Business, Marketing, and Finance  
|         | · Business Information Management I |
| Level 2 | · Virtual Business  
|         | · Honors Business Information Management II  
|         | · Entrepreneurship I |
| Level 3 | · Business Management - Available Beginning 2025–2026  
|         | · Global Business |
| Level 4 | · Honors Practicum in Business Management  
|         | · Honors Extended Practicum in Business Management |

Aligned Advanced Academic Courses

| AP or IB | AP Microeconomics  
|          | AP Statistics |
| Dual Credit: | Dual credit offerings will vary by Local Education Agency. |
|          | IB Economics SL  
|          | IB Economics HL |

Example Postsecondary Opportunities

Associate Degrees
· Business Administration and Management  
· Human Resources Management

Bachelor's Degrees
· Business Analytics  
· Accounting and Business

Master's, Doctoral, and Professional Degrees
· Business Administration and Management  
· Organizational Leadership

Additional Stackable IBIS/Licensures
· Professional Certificate in Team Leadership  
· Property Tax Professionals

Example Aligned Occupations

First-Line Supervisors of Administrative Support Workers
Median Wage: $59,585  
Annual Openings: 13,885  
10-Year Growth: 9%

Human Resources Specialists
Median Wage: $61,278  
Annual Openings: 6,239  
10-Year Growth: 23%

General and Operations Managers
Median Wage: $83,220  
Annual Openings: 25,450  
10-Year Growth: 23%

Work-Based Learning and Expanded Learning Opportunities

| Work-Based Learning Activities | · Intern at local business in the HR department |
|                               | · Shadow the COO of a local business or chamber of commerce |
| Expanded Learning Opportunities | · Participate in a CTSO (Career & Technical Education Student Organization) |
|                               | · Explore student membership in related professional organizations |

Aligned Industry-Based Certifications

· Entrepreneurship and Small Business  
· Microsoft Office Specialist 2016 Master  
· Microsoft Office Specialist: Microsoft Access Expert (Access 2019)  
· Microsoft Office Specialist: Microsoft Excel Expert (Excel 2019)  
· Microsoft Office Specialist: Microsoft Word Expert (Word 2019)

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Successful completion of the Business Management program of study will fulfill requirements of the Business and Industry endorsement.
Business, Marketing, and Finance Career Cluster
The Business, Marketing, and Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur, to accountant, retail manager and market analyst.

Statewide Program of Study: Entrepreneurship
The Entrepreneurship program of study focuses on occupational and educational opportunities associated with planning, launching, directing, and coordinating public or private sector ventures. This program of study includes formulating policies, launching businesses or organizations, managing daily operations, analyzing management structures, and planning for the use of materials and human resources.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Business, Marketing, and Finance</td>
</tr>
<tr>
<td></td>
<td>Business Information Management</td>
</tr>
<tr>
<td>Level 2</td>
<td>Entrepreneurship I</td>
</tr>
<tr>
<td>Level 3</td>
<td></td>
</tr>
<tr>
<td>Level 4</td>
<td>Honors Practicum in Business Management + Honors Extended Practicum in Business Management</td>
</tr>
<tr>
<td></td>
<td>Honors Practicum in Marketing + Honors Extended Practicum in Marketing</td>
</tr>
</tbody>
</table>

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AP Statistics</td>
</tr>
<tr>
<td></td>
<td>IB Mathematics: Analysis and Approaches</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Intern at a local start-up or a business incubator</td>
</tr>
<tr>
<td></td>
<td>Participate in the development and launch of a school-based enterprise</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expanded Learning Opportunities</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Job shadow an entrepreneur</td>
</tr>
<tr>
<td></td>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
</tr>
</tbody>
</table>

Aligned Industry-Based Certifications

- Entrepreneurship and Small Business
- Student Social Media Marketing Certification

Example Postsecondary Opportunities

**Associate Degrees**
- Operations Management and Supervision
- Organizational Leadership

**Bachelor's Degrees**
- Business Administration and Management
- Public Administration

**Master's, Doctoral, and Professional Degrees**
- Business Administration
- Public Administration

**Additional Stackable IBs/Licenses**
- Salesforce
- Service Contract Providers

Example Aligned Occupations

**General and Operations Managers**
- Median Wage: $83,220
- Annual Openings: 25,450
- 10-Year Growth: 23%

**Management Analysts**
- Median Wage: $93,983
- Annual Openings: 6,030
- 10-Year Growth: 25%

**Chief Executives**
- Median Wage: $163,567
- Annual Openings: 648
- 10-Year Growth: 3%

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Successful completion of the Entrepreneurship program of study will fulfill requirements of the Business and Industry endorsement.

For more information visit: https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources
Business, Marketing, and Finance Career Cluster

The Business, Marketing, and Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur to accountant, retail manager, and market analyst.

Statewide Program of Study: Marketing and Sales

The Marketing and Sales program of study focuses on occupational and educational opportunities associated with collecting information to estimate potential sales of a product or service and create campaigns to market or distribute goods and services. It includes applying data related to customer demographics, preferences, needs, and buying habits.

Secondary Courses for High School Credit

| Level 1 | • Principles of Business, Marketing, and Finance  
|         | • Digital Media  
| Level 2 | • Sports and Entertainment Marketing  
|         | • Virtual Business  
|         | • Entrepreneurship I  
| Level 3 | • Advertising  
|         | • Social Media Marketing  
| Level 4 | • Honors Practicum in Marketing + Honors Extended Practicum in Marketing

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.

Example Postsecondary Opportunities

Associate Degrees
• Marketing/Marketing Management  
• Retail Management

Bachelor's Degrees
• Business Administration  
• Marketing/Marketing Management  
• Fashion Merchandising

Master’s, Doctoral, and Professional Degrees
• Business Administration  
• Applied Economics  
• Business Analytics

Additional Stackable IBCs/Licenses
• Salesforce  
• Service Contract Providers

Example Aligned Occupations

Retail Salespersons
Median Wage: $28,356  
Annual Openings: 56,132  
10-Year Growth: 15%

Market Research Analysts
Median Wage: $60,926  
Annual Openings: 5,688  
10-Year Growth: 35%

Sales Managers
Median Wage: $123,729  
Annual Openings: 3,368  
10-Year Growth: 21%

Non-Discrimination Statement: Hurst-Euless-Bedford ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Luke DeFilippis, Title IX Coordinator - luke.defilippis@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Marketing and Sales program of study will fulfill requirements of the Business and Industry endorsement.
Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal & state accountability reporting.
Education and Training Career Cluster

The Education and Training career cluster focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training Career Cluster. This Career Cluster includes a diverse spectrum of occupations, ranging from teaching assistant, classroom teacher, to school administrator.

Statewide Program of Study: Teaching and Training

The Teaching and Training program of study focuses on occupational and educational opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials. The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.

Secondary Courses for High School Credit

**Level 1**
- Principles of Education and Training
- Principles of Human Services

**Level 2**
- Human Growth and Development
- Child Development

**Level 3**
- Instructional Practices

**Level 4**
- Honors Practicum in Education and Training
- Honors Extended Practicum in Education and Training

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>Dual Credit</th>
<th>Dual credit offerings will vary by Local Educational Agency.</th>
</tr>
</thead>
</table>

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

- Serve as a camp counselor to learn mentoring, facilitation, and lesson planning skills
- Volunteer in a tutoring center to learn lesson planning and skills assessment
- Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- Educational Aide I

Example Postsecondary Opportunities

**Apprenticeships**
- Teacher Apprentice

**Associate Degrees**
- Adult and Continuing Education and Teaching
- Educational/Instructional Technology

**Bachelor’s Degrees**
- Elementary Education and Teaching
- Secondary Education and Teaching

**Master’s, Doctoral, and Professional Degrees**
- Educational Leadership and Administration, General
- Curriculum and Instruction

**Additional Stackable IBIs/Licensures**
- Generalist, Grades EC-4

Example Aligned Occupations

**Teaching Assistants, Except Postsecondary**
- Median Wage: $28,066
- Annual Openings: 10,000
- 10-Year Growth: 15%

**Secondary School Teachers, Except Special Education and CTE**
- Median Wage: $61,035
- Annual Openings: 8,288
- 10-Year Growth: 14%

**Education Administrators, Kindergarten through Secondary**
- Median Wage: $81,976
- Annual Openings: 2676
- 10-Year Growth: 14%


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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NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Teaching and Training Program of Study will fulfill requirements of the Public Service endorsement.
Students completing two or more courses for two or more credits within a program of study earn **concentrator** status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn **completer** status for federal & state accountability reporting.

**FOR ADDITIONAL INFORMATION ON THE ENGINEERING CAREER CLUSTER, PLEASE CONTACT:**

HEB ISD Career & Technical Education Department

[https://www.hebisd.edu/departments/career-technical-education/career-technical-education](https://www.hebisd.edu/departments/career-technical-education/career-technical-education)

[https://tea.texas.gov/cte](https://tea.texas.gov/cte)
Engineering Career Cluster

The Engineering career cluster focuses on planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles. This career cluster includes occupations ranging from mechanical engineer and drafter to electrical engineer and to mapping technician.

Statewide Program of Study: Civil Engineering

The Civil Engineering program of study focuses on occupational and educational opportunities associated with the design, build, operation, and maintenance of infrastructure related to roads, buildings, airports, bridges, and transportation systems. This program of study includes exploration of infrastructure, site inspections, feasibility assessments and scope, and cost estimates. It addresses applying scientific, mathematical, and empirical evidence to solve problems in construction, infrastructure, and the environment.

Secondary Courses for High School Credit

| Level 1 | Principles of Applied Engineering (Honors option at CIH only 8th grade) |
| Level 2 | *Engineering Design and Presentation I |
| Level 3 | Engineering Mathematics |
| Level 4 | Engineering Design and Problem Solving |
| | Honors Engineering Design and Presentation II |
| | Honors Practicum in Science, Technology, Engineering, and Mathematics |
| | Scientific Research and Design |

*An Honors (Tier III) option is available for this course.*

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>Level</th>
<th>AP or IB</th>
<th>Dual Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>AP Calculus AB</td>
<td>AP Calculus BC</td>
</tr>
<tr>
<td>Level 2</td>
<td>AP Physics 1</td>
<td>AP Statistics</td>
</tr>
<tr>
<td>Level 3</td>
<td>AP Physics 2</td>
<td>IB Physics SL</td>
</tr>
<tr>
<td>Level 4</td>
<td>IB Physics HL</td>
<td></td>
</tr>
</tbody>
</table>

Dual credit offerings vary based 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.

Example Postsecondary Opportunities

**Apprenticeships**
- Surveyor Assistant Instrument Apprentice

**Associate Degrees**
- Civil Engineering, General
- Surveying Technology/Surveying

**Bachelor’s Degrees**
- Civil Engineering, General
- Construction Engineering

**Master’s, Doctoral, and Professional Degrees**
- Civil Engineering, General
- Surveying Engineering

**Additional Stackable IBCLicenses**
- Professional Civil Engineer (CE License)
- Civil Engineering Certification ASCE

Example Aligned Occupations

**Surveying and Mapping**

**Technicians**
- Median Wage: $45,804
- Annual Openings: 1,487
- 10-Year Growth: 18%

**Architectural and Civil Drafters**
- Median Wage: $57,424
- Annual Openings: 1,366
- 10-Year Growth: 15%

**Civil Engineers**
- Median Wage: $80,980
- Annual Openings: 2,823
- 10-Year Growth: 22%

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Successful completion of the Civil Engineering program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.


For more information visit: https://tea.texas.gov/academics/collage-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources
Engineering Career Cluster

The Engineering career cluster focuses on planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles. This career cluster includes occupations ranging from mechanical engineer and drafter to electrical engineer and to mapping technician.

Regional Program of Study: Drone (Unmanned Vehicle)

The Drone (Unmanned Vehicle) regional program of study focuses on the occupational and educational opportunities associated with operating or designing an unmanned aircraft using a ground-based controller. This program of study includes understanding and designing systems of communications between the controller and the aircraft to ensure compliance with federal aviation safety regulations.

Secondary Courses for High School Credit

Level 1

Level 2
- Honors Introduction to Unmanned Aerial Vehicles (UAV)
- *Robotics I

Level 3
- *Robotics II
- Engineering Science

Level 4
- Honors Practicum in Manufacturing + Honors Extended Practicum in Manufacturing
- Honors Scientific Research and Design (Honors Aerospace I)

* An Honors (Tier II) option is available for this course.

Aligned Advanced Academic Courses

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
- Intern with a public service, engineering, construction, or transportation firm
- Practice drone operations with an industry professional at a work site

Expanded Learning Opportunities
- Participate in an aerial drone competition
- Participate in a CTSD (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications
- FAA Part 107 Remote Drone Pilot

Example Postsecondary Opportunities

Associate Degrees
- Airline/Commercial/Professional Pilot and Flight Crew
- Manufacturing Engineering Technology/Technician

Bachelor’s Degrees
- Aviation Science
- Aeronautical/Aerospace Engineering Technology

Master’s, Doctoral, and Professional Degrees
- Aerospace, Aeronautical, and Astronautical/Space Engineering, General

Additional Stackable IBs/Licenses
- Aerial Mapping and 3D Modeling Certification

Example Aligned Occupations

Aerospace Engineering and Operations Technicians
- Median Wage: $48,204
- Annual Openings: 192
- 10-Year Growth: 21%

Avionics Technicians
- Median Wage: $72,461
- Annual Openings: 255
- 10-Year Growth: 16%


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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Successful completion of the Drone (Unmanned Vehicle) regional program of study will fulfill requirements of the Business and industry endorsement.
Engineering Career Cluster

The Engineering career cluster focuses on planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles. This career cluster includes occupations ranging from mechanical engineer and drafter to electrical engineer and to mapping technician.

Statewide Program of Study: Electrical Engineering

The Electrical Engineering program of study focuses on occupational and educational opportunities associated with the design, development, testing, and supervision of electrical equipment and systems. Students will design, test, and evaluate projects related to electrical motors, radar, navigation systems, and communication systems. This program study includes applying scientific, mathematical, and empirical evidence to solve problems in electrical systems associated with instruments, facilities, components, and equipment.

Secondary Courses for High School Credit

| Level 1 | Principles of Applied Engineering (Honors option at CH only 8th grade) |
| Level 2 | *Robotics I |
| Level 3 | *Robotics II |
| | *Engineering Design and Presentation |
| | Engineering Mathematics |
| | Engineering Science |
| Level 4 | Engineering Design and Problem Solving |
| | Honors Practicum in Science, Technology, Engineering, and Mathematics + Honors Extended Practicum in Science, Technology, Engineering, and Mathematics |

*An Honors (Tier III) option is available for this course.

Aligned Advanced Academic Courses

| AP or IB | AP Calculus AB | AP Physics 1 | IB Physics SL |
| AP Calculus BC | AP Physics 2 | IB Physics HL |
| AP Computer Science Principles | AP Statistics | IB Computer Science SL |
| AP Calculus BC | AP Physics 2 | IB Computer Science HL |

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**
- Intern for a construction company and use computer-aided design (CAD) to draw electrical blueprints
- Shadow an electrical engineering professional

**Expanded Learning Opportunities**
- Tour a telecommunications site
- Participate in a CTSO (Career & Technical Education Student Organization)
- Join a local engineering association and attend meetings

Example Postsecondary Opportunities

**Apprenticeship**
- Electrical Technician Apprenticeship

**Associate Degrees**
- Electrical, Electronic, and Communications Engineering Technology/Technician
- Electromechanical/Electromechanical Engineering Technology/Technician

**Bachelor's Degrees**
- Electrical and Electronics Engineering
- Bioengineering and Biomedical Engineering

**Master's, Doctoral, and Professional Degrees**
- Electrical and Electronics Engineering
- Bioengineering and Biomedical Engineering

**Additional Stackable IBs/Licenses**
- Professional Electrical Engineer (EE License)
- Electrical Apprenticeship Certificate Level 1 (520)

Example Aligned Occupations

**Electrical and Electronic Engineering Technologists and Technicians**
- Median Wage: $62,968
- Annual Openings: 1,156
- 10-Year Growth: 14%

**Electrical and Electronics Drafters**
- Median Wage: $58,987
- Annual Openings: 406
- 10-Year Growth: 16%

**Electrical Engineers**
- Median Wage: $102,534
- Annual Openings: 1,271
- 10-Year Growth: 21%

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Successful completion of the Electrical Engineering program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry Endorsement.
Engineering Career Cluster

The Engineering career cluster focuses on planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles. This career cluster includes occupations ranging from mechanical engineer and draftsman to electrical engineer and mapping technician.

Statewide Program of Study: Engineering Foundations

The Engineering Foundations program of study focuses on occupational and educational opportunities associated with a wide range of skills applied in the Engineering industry. Students will design, test, and evaluate projects related to engines, machines, and structures. This program of study includes applying scientific, mathematical, and empirical evidence to solve problems through innovation, design, construction, operation, and maintenance of different engineering systems.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Applied Engineering (Honors option at C1H only 8th grade)</td>
</tr>
<tr>
<td>Level 2</td>
<td>*Robotics I</td>
</tr>
</tbody>
</table>

*An Honors (Tier II) option is available for this course.

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP</td>
<td>Calculus AB</td>
</tr>
<tr>
<td></td>
<td>Computer Science A</td>
</tr>
<tr>
<td>AP Physics 1</td>
<td>Solar System: Energy and Atmosphere - AP</td>
</tr>
<tr>
<td></td>
<td>AP Statisics</td>
</tr>
<tr>
<td>IB Physics HL</td>
<td>Biology: Global Issues - AP</td>
</tr>
<tr>
<td></td>
<td>Computer Science SL</td>
</tr>
<tr>
<td></td>
<td>Computer Science HL</td>
</tr>
</tbody>
</table>

Dual Credit: Dual credit offerings will vary by Local Education Agency.

Secondary Courses for High School Credit

| Level 1 | Principles of Applied Engineering (Honors option at C1H only 8th grade) |
| Level 2 | *Robotics I                                                               |

*An Honors (Tier II) option is available for this course.

Work-Based Learning and Expanded Learning Opportunities

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
<th>Expanded Learning Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intern at an engineering, robotics, or aerospace company</td>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
</tr>
<tr>
<td>Visit an engineering firm and shadow multiple types of engineers</td>
<td>Join a local engineering association and attend meetings</td>
</tr>
</tbody>
</table>

Aligned Industry-Based Certifications

- Autodesk Associates (Certified User) AutoCAD
- Autodesk Associates (Certified User) Fusion 360
- Autodesk Associates (Certified User) Inventor for Mechanical Design
- Autodesk Associates (Certified User) Revit Architecture
- AutoCAD/CAD Drafting Operator I

Example Postsecondary Opportunities

Apprenticeships
- Industrial Engineering Technician
- Apprenticeship

Associate Degrees
- Manufacturing Engineering Technology/Technician
- Robotics Technology/Technician

Bachelor's Degrees
- Electrical and Electronics Engineering
- Engineering, General

Master's, Doctoral, and Professional Degrees
- Electrical and Electronics Engineering
- Engineering, General

Additional Stackable IBCs/Licenses
- Professional Engineer (PE License)
- Engineer in Training Certification (EIT)

Example Aligned Occupations

Civil Engineering Technologists and Technicians
- Median Wage: $61,138
- Annual Openings: 765
- 10-Year Growth: 11%

Aerospace Engineers
- Median Wage: $115,694
- Annual Openings: 483
- 10-Year Growth: 18%

Mechanical Engineers
- Median Wage: $99,937
- Annual Openings: 1,755
- 10-Year Growth: 19%

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Successful completion of the Engineering Foundations program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the business and industry endorsement.
The Engineering career cluster focuses on planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles. This career cluster includes occupations ranging from mechanical engineer and drafter to electrical engineer and to mapping technician.

**Statewide Program of Study: Mechanical and Aerospace Engineering**

The Mechanical and Aerospace Engineering program of study focuses on occupational and educational opportunities associated with the design, development, maintenance, and testing of engines, machines, and structures related to aircraft and spacecraft. Students will design, test, and evaluate projects related to aerodynamics, structural, and mechanical design. This program study includes applying scientific, mathematical, and empirical evidence to solve problems related to navigation, mechanics, robotics, propulsion, and combustion.

**Secondary Courses for High School Credit**

<table>
<thead>
<tr>
<th>Level</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Applied Engineering (Honors option at CIH only 8th grade)</td>
</tr>
</tbody>
</table>
| Level 2 | *Engineering Design and Presentation I  
 | Engineering Mathematics  
 | Engineering Science |
| Level 3 | Honors Engineering Design and Problem Solving (Honors Aerospace II)  
 | Honors Practicum in Science, Technology, Engineering, and Mathematics + Honors Extended Practicum in Science, Technology, Engineering, and Mathematics |
| Level 4 | AP or IB Courses  
 | Dual Credit Courses |
| AP Calculus AB  
 AP Calculus BC  
 AP Physics 1 | AP Physics 2  
 IB Physics SL  
 IB Physics HL |

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**

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intern at an aviation or aerospace company</td>
</tr>
<tr>
<td>Shadow a mechanical engineer to understand design and testing processes</td>
</tr>
<tr>
<td>Complete a project to test and evaluate a new product design for a local company</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expanded Learning Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tour an aerospace facility</td>
</tr>
<tr>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
</tr>
</tbody>
</table>

**Aligned Industry-Based Certifications**

An Industry-Based Certification for this Program of Study will be made available in school year 2025-2026.

**Example Postsecondary Opportunities**

**Apprenticeships**
- Mechanical Engineering Technician Apprenticeship

**Associate Degrees**
- Mechanical Engineering
- Aeronautics/Aviation/Aerospace Science and Technology, General

**Bachelor's Degrees**
- Aeronautics/Aerospace Engineering  
 Technology/Technician  
 Aeronautics/Aviation/Aerospace Science and Technology, General

**Master's, Doctoral, and Professional Degrees**
- Electrical and Electronics Engineering  
 Aerospace, Aeronautical, and Astronautical/Space Engineering, General

**Additional Stackable IBCLicenses**
- Professional Engineer (PE License)  
 Aerospace Engineering Certification

**Example Aligned Occupations**

**Aerospace Engineering and Operations Technologists and Technicians**
- Median Wage: $48,204  
 Annual Openings: 192  
 10-Year Growth: 21%

**Mechanical Engineers**
- Median Wage: $99,937  
 Annual Openings: 1,755  
 10-Year Growth: 18%

**Aerospace Engineers**
- Median Wage: $115,694  
 Annual Openings: 483  
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Successful completion of the Mechanical and Aerospace Engineering program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.
Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal & state accountability reporting.
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: Diagnostic and Therapeutic Services

The Diagnostic and Therapeutic Services program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Secondary Courses for High School Credit

Level 1
- Principles of Health Science

Level 2
- Medical Terminology
- Disaster Response (Fire Academy)

Level 3
- Anatomy and Physiology
- Honors Medical Microbiology
- Health Science Theory (Fire Academy)
- Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot/Site/PCT)

Level 4
- Honors Pathophysiology
- Honors Pharmacology
- Honors Practicum in Health Science + Honors Extended Practicum in Health Science (Phlebotomy/Fire Academy)

*An Honors (Tier II) option is available for this course.

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>AP Biology</th>
<th>AP Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IB Biology SL</td>
<td>IB Chemistry SL</td>
</tr>
<tr>
<td></td>
<td>IB Biology HL</td>
<td>IB Chemistry HL</td>
</tr>
</tbody>
</table>

Dual Credit: Dual credit offerings will vary based on 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 Concentrate/Complete status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities
- Intern with a medical assistant at a community clinic, hospital, assisted living or long-term care facility
- Participate in job shadowing experiences such as Emergency Medical Services (EMS) ride along, hospital/clinical job shadowing

Expanded Learning Opportunities
- Participate in a CTSO (Career & Technical Education Student Organization)
- Participate in Advanced Medical Ambulance Bus (AMBUS) event or Community Emergency Response Team (CERT) event

Aligned Industry-Based Certifications
- Certified EKG Technician
- Certified Patient Care Technician (CPCT)
- Emergency Medical Technician-Basic
- Pharmacy Technician
- Phlebotomy Technician

Example Postsecondary Opportunities

- Apprenticeships
  - Medical Assistant

- Associate Degrees
  - Emergency Medical Technology
  - Radiologic Technology/Science

- Bachelor's Degrees
  - Emergency Medical Technology
  - Medical Insurance Coding

- Master's, Doctoral, and Professional Degrees
  - Medicine
  - Occupational Therapy

Additional Stackable IBs/Licenses
- Registered Diagnostic Medical Sonographer

Example Aligned Occupations

**Medical Assistants**
- Median Wage: $36,834
- Annual Openings: 11,638
- 10-Year Growth: 29%

**Dental Hygienists**
- Median Wage: $79,663
- Annual Openings: 1,352
- 10-Year Growth: 32%

**Physician Assistants**
- Median Wage: $127,332
- Annual Openings: 974
- 10-Year Growth: 41%

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NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Diagnostic and Therapeutic Services program of study will fulfill requirements of the Public Service endorsement or STEM endorsement if the math and science requirements are met.
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: Exercise Science, Wellness, and Restoration

The Exercise Science, Wellness, and Restoration program of study focuses on occupational and educational opportunities associated with assisting patients with maintaining physical, mental, and emotional health. This program of study includes researching diet and exercise needed to maintain a healthy, balanced lifestyle and exploring techniques to help patients recover from injury, illness, or disease.

Secondary Courses for High School Credit

Level 1
- Principles of Health Science

Level 2
- Lifetime Nutrition and Wellness
- Interpersonal Studies
- Medical Terminology
- Entrepreneurship

Level 3
- Health Science Theory (Fire Academy)
- Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot./Site/PCT)
- *Anatomy and Physiology

Level 4
- Honors Practicum in Health Science + Honors Extended Practicum in Health Science (Phlebotomy/Fire Academy)
*An Honors (Tier II) option is available for this course.

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>AP Biology</th>
<th>IB Biology SL</th>
<th>IB Biology HL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Credit</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- Participate in an internship with a physical therapist, occupational therapist, or speech therapist
- Shadow an athletic trainer from a local sports team

Expanded Learning Opportunities
- Participate in a CTSO (Career & Technical Education Student Organization)
- Volunteer at a hospital or rehabilitation center

Aligned Industry-Based Certifications

- Emergency Medical Technician - Basic

Example Postsecondary Opportunities

Apprenticeships
- Medical Assistant

Associate Degrees
- Associate of Applied Science

Bachelor’s Degrees
- Nutrition Sciences
- Exercise Physiology and Kinesiology

Master’s, Doctoral, and Professional Degrees
- Exercise Science and Kinesiology
- Physical Therapy

Additional Stackable IBs/Licensures
- Physical Therapy Technician/Aide Certification

Example Aligned Occupations

Exercise Trainers and Group Fitness Instructors
- Median Wage: $44,916
- Annual Openings: 5,022
- 10-Year Growth: 41%

Physical Therapist Assistants
- Median Wage: $74,866
- Annual Openings: 1,218
- 10-Year Growth: 44%

Athletic Trainers
- Median Wage: $54,447
- Annual Openings: 295
- 10-Year Growth: 13%

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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 Exercise Science, Wellness, and Restoration program of study will fulfill requirements of the Public Services endorsement.
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: Nursing Science

The Nursing Science program of study focuses on occupational and educational opportunities associated with patient care. This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing, and implementing care plans, maintaining medical records, and managing disease or pain.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Health Science</td>
</tr>
<tr>
<td>Level 2</td>
<td>Medical Terminology</td>
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<td>Level 3</td>
<td>Health Science Theory (Fire Academy)</td>
</tr>
<tr>
<td></td>
<td>Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot./Site/PCT)</td>
</tr>
<tr>
<td></td>
<td>Anatomy and Physiology</td>
</tr>
<tr>
<td></td>
<td>Honors Medical Microbiology</td>
</tr>
<tr>
<td>Level 4</td>
<td>Honors Pathophysiology</td>
</tr>
<tr>
<td></td>
<td>Honors Pharmacology</td>
</tr>
<tr>
<td></td>
<td>Honors Practicum in Health Science + Honors Extended Practicum in Health Science (Phlebotomy/Fire Academy)</td>
</tr>
</tbody>
</table>

*An Honors (Tier III) option is available for this course.

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>AP Biology</th>
<th>AP Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.B Biology SL</td>
<td>I.B Chemistry SL</td>
<td></td>
</tr>
<tr>
<td>I.B Biology HL</td>
<td>I.B Chemistry HL</td>
<td></td>
</tr>
</tbody>
</table>

Dual Credit: Dual credit offerings will vary by Local Education Agency.

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Work-Based Learning and Expanded Learning Opportunities

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intern with a medical assistant at a community clinic, hospital, or assisted living facility</td>
</tr>
<tr>
<td>Conduct informational interviews with nurses in different departments and healthcare settings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expanded Learning Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volunteer at community clinics, hospitals, assisted living and long-term care facilities</td>
</tr>
<tr>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
</tr>
</tbody>
</table>

Aligned Industry-Based Certifications

- Certified Patient Care Technician (CPCT)
- Phlebotomy Technician

Non-Discrimination Statement: Hurst-Euless-Bedford ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Luke DeFilippis, Title IX Coordinator - luke.defilippis@hebisd.edu, 817-283-4461.

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

Example Postsecondary Opportunities

- **Apprenticeships**
  - Registered Nurse Resident

- **Associate Degrees**
  - Medical Assisting
  - Vocational Nursing

- **Bachelor’s Degrees**
  - Registered Nursing
  - Nursing Administration

- **Master’s, Doctoral, and Professional Degrees**
  - Nursing Administration
  - Nursing Science

Additional Stackable IBs/Licenses

- Certified Nursing Assistant

Example Aligned Occupations

**Nursing Assistants**
- Median Wage: $30,856
- Annual Openings: 10,936
- 10-Year Growth: 15%

**Licensed Practical and Licensed Vocational Nurses**
- Median Wage: $50,913
- Annual Openings: 6,865
- 10-Year Growth: 17%

**Registered Nurses**
- Median Wage: $79,831
- Annual Openings: 16,207
- 10-Year Growth: 17%


For more information visit:
https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources
Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal & state accountability reporting.
Hospitality and Tourism Career Cluster

The Hospitality and Tourism career cluster focuses on the management, marketing, and operations of restaurants, lodging, attractions, recreation events, and travel-related services. This career cluster includes occupations ranging from reservation and transportation ticket agent to event planner and general manager.

Statewide Program of Study: Culinary Arts

The Culinary Arts program of study focuses on occupational and educational opportunities associated with the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study includes opportunities involved in directing and participating in the preparation of food.

Secondary Courses for High School Credit

Level 1
• Introduction to Culinary Arts

Level 2
• Culinary Arts
• Entrepreneurship I

Level 3

Level 4
• Honors Practicum in Culinary Arts + Honors Extended Practicum in Culinary Arts

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Dual Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Chemistry</td>
<td></td>
</tr>
<tr>
<td>IB Chemistry SL</td>
<td></td>
</tr>
</tbody>
</table>

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Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities
• Shadow a director of a non-profit that produces and delivers food for communities in need
• Intern at a catering company and learn about food production for large-scale events
• Work part-time in a restaurant as a line cook or chef

Expanded Learning Opportunities
• Participate in a CTSO (Career & Technical Education Student Organization)
• Participate in American Culinary Association or the Texas Restaurant Association

Aligned Industry-Based Certifications

• ServSafe Manager

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FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER,
PLEASE CONTACT:
HEB ISD Career & Technical Education Department
https://www.hebisd.edu/departments/career-technical-education/career-technical-education
https://tea.texas.gov/cte

Students completing two or more courses for two or more credits within a program of study earn **concentrator** status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn **completer** status for federal & state accountability reporting.
Human Services Career Cluster

The Human Services career cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services. This career cluster includes occupations ranging from community health workers to cosmetologists and nutritionists.

Regional Program of Study: Cosmetology and Personal Care Services

The Cosmetology and Personal Care Services regional program of study focuses on occupational and educational opportunities associated with providing beauty and personal care services. This program of study includes managing personal care facilities and coordinating or supervising personal service workers.

Secondary Courses for High School Credit

Level 1

Level 2
- Introduction to Cosmetology
- Entrepreneurship I

Level 3
- Cosmetology I

Level 4
- Cosmetology II + Cosmetology II Lab

Aligned Advanced Academic Courses

Dual Credit Dual credit offerings will vary by Local Educational Agency.

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Example Postsecondary Opportunities

Apprenticeships
- Apprentice Stylist

Associate Degrees
- Cosmetology Operator
- Esthetics and Skin Care

Additional Stackable IBs/Licensures
- Class A Barber
- Eyelash Extension Specialist
- Hair Weaving Specialist

Example Aligned Occupations

Hairdressers, Hairstylists, and Cosmetologists
Median Wage: $27,286
Annual Openings: 8,014
10-Year Growth: 25%

Skincare Specialists
Median Wage: $35,112
Annual Openings: 778
10-Year Growth: 38%

First-Line Supervisors of Personal Service Workers
Median Wage: $36,795
Annual Openings: 2,253
10-Year Growth: 29%


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

Aligned Industry-Based Certifications

- Cosmetology Operator License

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities
- Work part-time in a salon, spa, or barbershop
- Participate in an apprenticeship at a salon to become an apprentice stylist

Expanded Learning Opportunities
- Tour a salon, spa, or barbershop
- Participate in a CTSO (Career & Technical Education Student Organization)

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Successful completion of the Cosmetology and Personal Care Services regional program of study will fulfill requirements of the Public Services endorsement.
Human Services Career Cluster

The Human Services career cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services. This career cluster includes occupations ranging from community health workers to cosmetologists and nutritionists.

Statewide Program of Study: Family and Community Services

The Family and Community Services program of study focuses on occupational and educational opportunities associated with social services, including child and human development and consumer sciences. This program of study includes managing social and community services, managing family and consumer sciences, and understanding career paths in social work or therapy for children, families, or school communities.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Human Services, Professional Communications, Dollars and Sense</td>
</tr>
<tr>
<td>Level 2</td>
<td>Human Growth and Development, Child Development, Lifetime Nutrition and Wellness, Interpersonal Studies, Entrepreneurship I</td>
</tr>
<tr>
<td>Level 3</td>
<td>Family and Community Services, Counseling and Mental Health</td>
</tr>
<tr>
<td>Level 4</td>
<td>Honors Practicum in Human Services, Honors Extended Practicum in Human Services</td>
</tr>
</tbody>
</table>

Aligned Advanced Academic Courses

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Work-Based Learning and Expanded Learning Opportunities

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participate in a community health worker apprenticeship at a community health center</td>
</tr>
<tr>
<td>Shadow a social worker in a community non-profit organization to learn about providing social and community services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expanded Learning Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
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</tbody>
</table>

Aligned Industry-Based Certifications

- Community Health Workers

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Successful completion of the Family and Community Services program of study will fulfill requirements of the Public Services endorsement.
Human Services Career Cluster

The Human Services career cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services. This career cluster includes occupations ranging from community health workers to cosmetologists and nutritionists.

Statewide Program of Study: Health and Wellness

The Health and Wellness program of study focuses on occupational and educational opportunities associated with promoting physical, emotional, and mental health and wellness. This program of study includes assisting patients in planning for their health and wellness, responding to crises, providing education or counseling, making referrals, and addressing barriers to accessing health and wellness services.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Human Services, Dollars and Sense</td>
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<td>Level 4</td>
<td>Honors Practicum in Human Services + Honors Extended Practicum in Human Services</td>
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Aligned Advanced Academic Courses

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Work-Based Learning and Expanded Learning Opportunities

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
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</thead>
<tbody>
<tr>
<td>Shadow a dietician in a local hospital or nursing home to learn about tailoring diets to patient needs</td>
</tr>
<tr>
<td>Work part-time as a peer counselor at a community non-profit organization that works with children</td>
</tr>
<tr>
<td>Intern at a non-profit organization to learn about identifying resources to serve needs of participants</td>
</tr>
</tbody>
</table>

<table>
<thead>
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Aligned Industry-Based Certifications

* Community Health Workers

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Example Postsecondary Opportunities

**Apprenticeships**
- Community Health Worker Apprentice

**Associate Degrees**
- Social Work
- Community Health Services Counseling

**Bachelor’s Degrees**
- Social Work
- Mental Health Counseling

**Master’s, Doctoral, and Professional Degrees**
- Nutrition Sciences
- Dietetics

**Additional Stackable IBCs/Licenses**
- Dietician

Example Aligned Occupations

**Community Health Workers**
- Median Wage: $39,520
- Annual Openings: 501
- 10-Year Growth: 25%

**Dietetic Technician**
- Median Wage: $28,919
- Annual Openings: 160
- 10-Year Growth: 18%

**Dietitians and Nutritionists**
- Median Wage: $63,687
- Annual Openings: 475
- 10-Year Growth: 21%


Successful completion of the Health and Wellness program of study will fulfill requirements of the Public Service endorsement.
Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal & state accountability reporting.
Information Technology Career Cluster

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Statewide Program of Study: Cybersecurity

The Cybersecurity program of study focuses on occupational and educational opportunities associated with planning, implementing, upgrading, or monitoring security measures for the protection of computer networks and information. This program of study includes responding to computer security breaches and viruses and administering network security measures.

Secondary Courses for High School Credit

Level 1
- Principles of Information Technology (Hurst Junior High)
- Fundamentals of Computer Science (Euless Junior High)
- Foundations of Cybersecurity (Hurst Junior High)

Level 2
- Computer Science I
- Computer Maintenance
- AP Computer Science Principles

Level 3
- Digital Forensics
- Networking
- Networking/Network Lab
- AP Computer Science A
- IB Computer Science Standard Level
- IB Computer Science Higher Level

Level 4
- Cybersecurity Capstone
- Honors Independent Study in Technology Applications
- Honors Practicum in Information Technology + Honors Extended Practicum in Information Technology
- Honors Practicum in Science, Technology, Engineering, and Mathematics + Honors Extended Practicum in Science, Technology, Engineering, and Mathematics

Examples Postsecondary Opportunities

Associate Degrees
- Computer and Information Systems Security
- Computer Programming

Bachelor’s Degrees
- Computer Science
- Computer Software Engineering

Master’s, Doctoral, and Professional Degrees
- Computer and Information Systems Security/Auditing/Information Assurance
- Computer Software Engineering

Additional Stackable IBCs/Licenses
- Certified Ethical Hacker (CEH)

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Dual Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Computer Science A</td>
<td>Dual credit offerings will vary by Local Education Agency.</td>
</tr>
<tr>
<td>AP Computer Science Principles</td>
<td></td>
</tr>
</tbody>
</table>

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities
- Intern at a local bank, hospital, or government office to develop skills in implementing security measures
- Interview an information security analyst to learn how they plan for, monitor, and upgrade security measures at their organization

Expanded Learning Opportunities
- Participate in a Hackathon
- Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications
- Cisco 100-490 RSTECH Supporting Cisco Routing and Switching Network Devices
- CompTIA Security+
- CompTIA A+ Certification

Example Aligned Occupations

Computer User Support Specialists
- Median Wage: $51,411
- Annual Openings: 5,757
- 10-Year Growth: 21%

Software Developers
- Median Wage: $111,705
- Annual Openings: 15,324
- 10-Year Growth: 36%

Information Security Analysts
- Median Wage: $110,268
- Annual Openings: 1,719
- 10-Year Growth: 49%

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Information Technology Career Cluster

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Statewide Program of Study: Information Technology Support and Services

The Information Technology Support and Services program of study focuses on occupational and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study includes analyzing user requirements, automating or improving existing systems, and reviewing computer system capabilities. It also includes research, design, and testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Courses</th>
</tr>
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<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Information Technology (Hurst Junior High)</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Computer Science (Euless Junior High)</td>
</tr>
<tr>
<td>Level 2</td>
<td>Computer Maintenance</td>
</tr>
<tr>
<td>Level 3</td>
<td>Honors Independent Study in Technology Applications</td>
</tr>
<tr>
<td>Level 4</td>
<td>Computer Technician Practicum</td>
</tr>
<tr>
<td></td>
<td>Honors Practicum in Information Technology + Honors Extended Practicum</td>
</tr>
</tbody>
</table>

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Dual Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Biology A</td>
<td>AP Computer Science Principles</td>
</tr>
<tr>
<td>IB Computer Science SL</td>
<td>IB Computer Science HL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intern at a local IT company to develop skills in computer system maintenance and setting up computer equipment</td>
</tr>
<tr>
<td>Shadow a database administrator or computer software or hardware engineer to learn about their day-to-day responsibilities</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expanded Learning Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
</tr>
<tr>
<td>Subscribe to industry journals</td>
</tr>
</tbody>
</table>

Aligned Industry-Based Certifications

- CompTIA A+ Certification

Example Postsecondary Opportunities

- Apprenticeships
  - Coding Apprenticeship
- Associate Degrees
  - Computer Science
  - Network and System Administration
- Bachelor’s Degrees
  - Computer and Information Systems
  - Security/Auditing/Information Assurance
  - Computer Engineering
- Master’s, Doctoral, and Professional Degrees
  - Information Science/Studies
  - Electrical and Electronics Engineering
- Additional Stackable IBCs/Licenses
  - CompTIA Server+

Example Aligned Occupations

- **Computer User Support Specialists**
  - Median Wage: $51,411
  - Annual Openings: 5,757
  - 10-Year Growth: 21%

- **Computer Network Support Specialists**
  - Median Wage: $65,646
  - Annual Openings: 1,634
  - 10-Year Growth: 19%

- **Computer Hardware Engineers**
  - Median Wage: $119,662
  - Annual Openings: 377
  - 10-Year Growth: 14%

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NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Information Technology Support and Services program of study will fulfill requirements of the Business and Industry endorsement.


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

The Networking Systems program of study focuses on designing and implementing computer and information networks, including local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program includes analysis of data processing challenges and the improvement of computer systems.

Example Postsecondary Opportunities

Apprenticeships
- Network Engineer Apprenticeship

Associate Degrees
- Computer Systems Networking and Telecommunications
- Network and System Administration

Bachelor’s Degrees
- Computer and Information Sciences
- Information Technology

Master’s, Doctoral, and Professional Degrees
- Computer Science
- Information Technology

Additional Stackable IBCs/Licenses
- Aruba Certified Mobility Associate (ACMA)

Example Aligned Occupations

Computer Network Support Specialists
- Median Wage: $65,646
- Annual Openings: 1,634
- 10-Year Growth: 19%

Computer Systems Analysts
- Median Wage: $101,716
- Annual Openings: 4,985
- 10-Year Growth: 19%

Network and Computer Systems Administrators
- Median Wage: $85,375
- Annual Openings: 2,900
- 10-Year Growth: 20%

Information Technology Career Cluster

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Statewide Program of Study: Programming and Software Development

The Programming and Software Development program of study focuses on occupational and educational opportunities associated with researching, designing, developing, testing, and operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study includes creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

Secondary Courses for High School Credit

Level 1
- Principles of Information Technology (Hurst Junior High)
- Fundamentals of Computer Science (Euless Junior High)

Level 2
- Computer Science I
- AP Computer Science Principles
- Entrepreneurship I

Level 3
- Computer Science II
- AP Computer Science A
- IB Computer Science Standard Level
- IB Computer Science Higher Level

Level 4
- Honors Independent Study In Technology Applications
- Honors Practicum in Audio/Video Production + Honors Extended Practicum in Information Technology
- Honors Practicum in Information Technology + Honors Extended Practicum in Information Technology
- Honors Practicum in Science, Technology, Engineering, and Mathematics + Honors Extended Practicum in Science, Technology, Engineering, and Mathematics

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Dual Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Calculus AB</td>
<td>Dual credit offerings will vary by Local Education Agency.</td>
</tr>
<tr>
<td>AP Statistics</td>
<td>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.</td>
</tr>
<tr>
<td>IB Mathematics Applications and Interpretation SL</td>
<td></td>
</tr>
</tbody>
</table>

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities
- Intern at a local IT company to develop skills in programming and coding
- Shadow a software developer to learn how they create and improve software to support efficient processes at their company

Expanded Learning Opportunities
- Program and create a game
- Participate in a CTSQ (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications
- Certified Entry-Level Python Programmer (PCEP)
- Certified User: Programmer
- CodeHS Python Level 1 Certification
- CompTIA A+ Certification

Example Postsecondary Opportunities

Apprenticeships
- Computer Programmer Apprenticeship

Associate Degrees
- Computer Programming
- Web Page, Digital/Multimedia and Information Resources Design

Bachelor’s Degrees
- Data Science
- Computer Engineering

Master’s, Doctoral, and Professional Degrees
- Management Science
- Computer Software Engineering

Additional Stackable IBs/Licenses
- AWS Certified Developer Associate

Example Aligned Occupations

Computer User Support Specialists
Median Wage: $51,411
Annual Openings: 5,757
10-Year Growth: 21%

Software Developers
Median Wage: $111,705
Annual Openings: 15,324
10-Year Growth: 36%

Computer Programmers
Median Wage: $87,997
Annual Openings: 1,176
10-Year Growth: 4%

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NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Programming and Software Development program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.

Information Technology Career Cluster

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Statewide Program of Study: Web Development

The Web Development program of study focuses on occupational and educational opportunities associated with designing, creating, and modifying websites. It includes integration of websites with other computer applications and conversion of written, graphic, audio, and video components to compatible web formats using software designed to facilitate the creation of web and multimedia content.

Secondary Courses for High School Credit

Level 1
- Principles of Information Technology (Hurst Junior High)
- Fundamentals of Computer Science (Euless Junior High)
- Digital Media

Level 2
- Computer Science I
- Entrepreneurship I

Level 3
- Web Design

Level 4
- Honors Independent Study in Technology Applications
- Honors Practicum in Information Technology + Honors Extended Practicum in Information Technology

Aligned Advanced Academic Courses

<table>
<thead>
<tr>
<th>AP or IB</th>
<th>Dual Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Computer Science A</td>
<td>Dual credit offerings will vary by Local Education Agency.</td>
</tr>
<tr>
<td>AP Computer Science Principles</td>
<td></td>
</tr>
<tr>
<td>IB Computer Science SL</td>
<td></td>
</tr>
<tr>
<td>IB Computer Science HL</td>
<td></td>
</tr>
</tbody>
</table>

Example Postsecondary Opportunities

Associate Degrees
- Web Page, Digital/Multimedia and Information Resources Design
- Web/Multimedia Management

Bachelor’s Degrees
- Computer and Information Sciences
- Information Technology

Master’s, Doctoral, and Professional Degrees
- Computer and Information Sciences
- Computer Software Engineering

Additional Stackable IBCs/Licenses
- HTML Developer

Example Aligned Occupations

Web Developers
- Median Wage: $77,712
- Annual Openings: 1,170
- 10-Year Growth: 24%

Software Developers
- Median Wage: $111,705
- Annual Openings: 15,324
- 10-Year Growth: 36%

Computer and Information Systems Managers
- Median Wage: $155,593
- Annual Openings: 3,064
- 10-Year Growth: 26%

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Successful completion of the Web Development program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met, or the Business and Industry endorsement.
Students completing two or more courses for two or more credits within a program of study earn **concentrator** status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn **completer** status for federal & state accountability reporting.
Law and Public Service Career Cluster

The Law and Public Service career cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. This career cluster includes occupations ranging from police officer and firefighter to political scientist and lawyer.

Statewide Program of Study: Law Enforcement

The Law Enforcement program of study focuses on occupational and educational opportunities associated with the development and enforcement of laws by various branches of law enforcement. This program of study includes the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Secondary Courses for High School Credit

| Level 1 | Principles of Law, Public Safety, Corrections, and Security |
| Level 2 | Law Enforcement I (Rotation/911 Dispatch) |
| Level 3 | Law Enforcement II |
|         | Counseling and Mental Health |
| Level 4 | Forensic Science |
|         | Honors Practicum in Law, Public Safety, Corrections, and Security + Honors Extended Practicum in Law, Public Safety, Corrections, and Security |

Aligned Advanced Academic Courses

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

- Shadow a detective to learn about investigations and the role of detectives in law enforcement
- Intern in dispatch at a local law enforcement agency to learn about first responder roles and processes

Expanded Learning Opportunities

- Visit a police department
- Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- IAED Emergency Telecommunicator 2025-2026

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Successful completion of the Law and Public Services program of study will fulfill requirements of the Public Services endorsement.

Example Postsecondary Opportunities

- Apprenticeships
  - Security Specialist
- Associate Degrees
  - Criminal Justice
  - Law Enforcement
- Bachelor's Degrees
  - Forensic Science
  - Criminal Justice
- Master's, Doctoral, and Professional Degrees
  - Criminal Justice
  - Criminology and Criminal Justice
- Additional Stackable IBCC/Licenses
  - Jailer - Basic County Corrections
  - Basic Telecommunicator

Example Aligned Occupations

- Police and Sheriff's Patrol Officers
  - Median Wage: $64,373
  - Annual Openings: 5,424
  - 10-Year Growth: 13%

- Detectives and Criminal Investigators
  - Median Wage: $82,090
  - Annual Openings: 1,536
  - 10-Year Growth: 8%

- First-Line Supervisors of Police and Detectives
  - Median Wage: $97,571
  - Annual Openings: 5461
  - 0-Year Growth: 12%


For more information visit: https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources
# Law and Public Service Career Cluster

The Law and Public Service career cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. This career cluster includes occupations ranging from police officer and firefighter to political scientist and lawyer.

## Statewide Program of Study: Legal Studies

The Legal Studies program of study focuses on topics such as legal research, legal writing, rules of procedure, case management, law office technology and legal ethics. Areas of the legal system studied include aspects of family law, criminal law, and contract law.

### Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Law, Public Safety, Corrections, and Security</td>
</tr>
<tr>
<td>Level 2</td>
<td>Court Systems and Practices</td>
</tr>
<tr>
<td>Level 3</td>
<td>Advanced Legal Skills and Professions</td>
</tr>
<tr>
<td>Level 4</td>
<td>Forensic Science</td>
</tr>
<tr>
<td></td>
<td>Honors Practicum in Law, Public Safety, Corrections, and Security + Honors Extended Practicum in Law, Public Safety, Corrections, and Security</td>
</tr>
</tbody>
</table>

### Aligned Advanced Academic Courses

**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**

- Shadow a clerk in a courthouse to learn about civil litigation
- Intern at a law firm, working alongside a paralegal to produce and organize legal documents
- Work part-time as an administrative assistant at a local non-profit that provides legal aid

**Expanded Learning Opportunities**

- Participate in a CTSO (Career & Technical Education Student Organization)
- Participate in a Mock Trial

### Aligned Industry-Based Certifications

An Industry-Based Certification for this Program of Study will be made available in school year 2025-2026.

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**Example Postsecondary Opportunities**

- Apprenticeships
  - Law Apprenticeship
- Associate Degrees
  - Paralegal Studies
  - Court Reporting and Captioning
- Bachelor’s Degrees
  - Legal Research
  - Legal Studies
- Master’s, Doctoral, and Professional Degrees
  - Juris Doctorate
  - International and Comparative Law
- Additional Stackable IBGs/Licensures
  - Paralegal

**Example Aligned Occupations**

- **Court Reporters**
  - Median Wage: $51,177
  - Annual Openings: 174
  - 10-Year Growth: 11%

- **Paralegals and Legal Assistants**
  - Median Wage: $56,310
  - Annual Openings: 4,046
  - 10-Year Growth: 23%

- **Lawyers**
  - Median Wage: $134,158
  - Annual Openings: 3,915
  - 10-Year Growth: 19%

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

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Services endorsement.
Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for federal & state accountability reporting.
Manufacturing Career Cluster

The Manufacturing career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and process engineering. This career cluster includes occupations ranging from Welder and Machinist to Industrial Engineering Technician, and Semi-Conductor Processing Technician.

Statewide Program of Study: Robotics and Automation Technology

The Robotics and Automation Technology program of study focuses on occupational and educational opportunities associated with the assembly, operation, maintenance, and repair of electromechanical equipment or devices. This program of study includes exploration of a variety of mechanical fields, including robotics, refinery and pipeline systems, deep ocean exploration, and hazardous waste removal.

Secondary Courses for High School Credit

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1</td>
<td>Principles of Applied Engineering (Honors option at CCH only 8th grade)</td>
</tr>
<tr>
<td>Level 2</td>
<td>*Robotics I</td>
</tr>
<tr>
<td>Level 3</td>
<td>*Engineering Design and Presentation I</td>
</tr>
<tr>
<td>Level 4</td>
<td>Honors Practicum in Manufacturing + Honors Extended Practicum in Manufacturing</td>
</tr>
</tbody>
</table>

*An Honors (Tier II) option is available for this course.

Aligned Advanced Academic Courses

| 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 toward Complete status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

<table>
<thead>
<tr>
<th>Work-Based Learning Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intern with a robotics technician working at manufacturing plant</td>
</tr>
<tr>
<td>Shadow a PLC programmer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expanded Learning Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tour a manufacturing facility</td>
</tr>
<tr>
<td>Participate in a CTSO (Career &amp; Technical Education Student Organization)</td>
</tr>
<tr>
<td>Build a robot and participate in a robotics competition</td>
</tr>
</tbody>
</table>

Industry-Based Certifications

- C-101 Certified Industry 4.0 Associate - Basic
- FANUC Robot Operator I
- Certified Manufacturing Associate

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Example Postsecondary Opportunities

Associate Degrees
- Instrumentation Technology
- Industrial Technology
- Robotics Technology
- Automation Engineer Technology

Bachelor’s Degrees
- Mechanical Engineering
- Electrical and Electronics Engineering
- Electrical, Electronic, and Communications Engineering Technology
- Electromechanical Engineering Technology

Master’s, Doctoral, and Professional Degrees
- Mechanical Engineering
- Engineering/Industrial Management
- Industrial Engineering
- Electrical and Electronics Engineering

Example Aligned Occupations

Computer Numerically Controlled Tool Operators
- Median Wage: $46,353
- Annual Openings: 1,146
- 10-Year Growth: 10%

Semiconductor Processing Technicians
- Median Wage: $36,902
- Annual Openings: 621
- 10-Year Growth: 9%

Industrial Engineers
- Median Wage: $100,000
- Annual Openings: 1,898
- 10-Year Growth: 26%

Successful completion of the Robotics and Automation Technology program of study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.

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

The Manufacturing career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and process engineering. This career cluster includes occupations ranging from Welder and Machinist to Industrial Engineering Technician, and Semi-Conductor Processing Technician.

Statewide Program of Study: Welding

The Welding program of study focuses on occupational and educational opportunities associated with the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. This program of study addresses how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

Secondary Courses for High School Credit

| Level 1 | Introduction to Welding |
| Level 2 | Welding I, Entrepreneurship I |
| Level 3 | Welding II, Welding II + Welding II Lab |
| Level 4 | Honors Practicum in Manufacturing + Honors Extended Practicum in Manufacturing |

Aligned Advanced Academic Courses

| 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 toward completion status for this program of study.

Work-Based Learning and Expanded Learning Opportunities

| Work-Based Learning Activities |• Job shadow a welder • Intern for a local welding company |
| Expanded Learning Opportunities | • Tour a welding shop • Participate in a CTSO (Career & Technical Education Student Organization) • Participate in a welding project that benefits the community |

Industry-Based Certifications

- API 1104 Welding Pipelines and Related Facilities
- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding

Example Postsecondary Opportunities

- Apprenticeships
  - Welding
- Associate Degrees
  - Welding Technology
  - Building/Construction Site Management
  - Operations Management and Supervision
- Bachelor's Degrees
  - Welding Technology
  - Construction Management
  - Project Management
  - Building/Construction Site Management
- Master's, Doctoral, and Professional Degrees
  - Engineering
  - Engineering/Industrial Management
  - Manufacturing Engineering
  - Construction Engineering

Example Aliased Occupations

- Welders, Cutters, Solderers, and Brazers
  - Median Wage: $48,177
  - Annual Openings: 6,792
  - 10-Year Growth: 23%
- First-Line Supervisors of Production and Operating Workers
  - Median Wage: $62,584
  - Annual Openings: 5,926
  - 10-Year Growth: 17%
- Industrial Production Managers
  - Median Wage: $119,691
  - Annual Openings: 1,296
  - 10-Year Growth: 19%

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Successful completion of the Welding program of study will fulfill requirements of the Business and Industry endorsement.
Students completing two or more courses for two or more credits within a program of study earn **concentrator** status for Perkins V federal & state accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn **completer** status for federal & state accountability reporting.
Transportation, Distribution, and Logistics Career Cluster

The Transportation, Distribution, and Logistics career cluster focuses on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes transportation infrastructure planning and management, logistics services, and mobile equipment and facility maintenance. This career cluster includes occupations ranging from automotive mechanic, avionics technician, and automotive entrepreneur to pilots and logistics planning professionals.

**Statewide Program of Study: Automotive**

The Automotive program of study focuses on the occupational and educational opportunities associated with servicing, repairing, and refinishing various types of vehicles. This program of study includes diagnosing and servicing vehicles and learning about processes, technologies, and materials used in reconstructing vehicles.

**Secondary Courses for High School Credit**

**Level 1**

- Automotive Basics
- Entrepreneurship I

**Level 2**

- Automotive Technology I: Maintenance and Light Repair

**Level 3**

- Automotive Technology II: Automotive Service
- Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory
- Honors Practicum in Transportation Systems + Honors Extended Practicum in Transportation Systems

**Level 4**

- Automotive Technology III: Advanced Automotive Service
- Automotive Technology III: Advanced Automotive Service + Advanced Transportation Systems Laboratory
- Honors Practicum in Transportation Systems + Honors Extended Practicum in Transportation Systems

**Aligned Advanced Academic Courses**

**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**

- Shadow an automotive technician at a car dealership
- Intern at a rental car company and assist technicians with vehicle maintenance
- Work at a local automotive repair shop and hold both customer service duties and automatic repair duties

**Expanded Learning Opportunities**

- Join a related automotive association and attend events
- Participate in a CTSO (Career & Technical Education Student Organization)

**Aligned Industry-Based Certifications**

- ASE Entry Level: Automotive Maintenance and Light Repair (MR)
- ASE Entry Level: Automotive Brakes (BR)
- ASE Entry Level: Automobile Electronic/Electrical Systems (EE)
- ASE Entry Level: Automotive Engine Repair (ER)
- ASE Entry Level: Automotive Manual Drive Train and Axles (MD)
- ASE Entry Level: Automobile Suspension and Steering (SS)

Non-Discrimination Statement: Hurst-Euless-Bedford ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Luke Defilippis, Title IX Coordinator - luke.defilippis@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish, located on pages 170-171 of this publication.

Successful completion of the Automotive and Collision Repair program of study will fulfill requirements of the Business and Industry endorsement.

**Example Postsecondary Opportunities**

**Apprenticeships**
- Automotive Technician Apprenticeship

**Associate Degrees**
- Automobile/Automotive Mechanics Technology
- Autobody/Collision and Repair Technology

**Bachelor’s Degrees**
- Autobody/Collision and Repair Technology
- Heavy Equipment Maintenance Technology

**Additional Stackable IB/C/Licenses**
- Automobile and Light Truck Certification (A1 – A9)

**Example Aligned Occupations**

**Automotive Service Technicians and Mechanics**

Median Wage: $44,809
Annual Openings: 6,285
10-Year Growth: 10%

**Bus and Truck Mechanics and Diesel Engine Specialists**

Median Wage: $50,967
Annual Openings: 3,096
10-Year Growth: 19%

**First-Line Supervisors of Mechanics, Installers, and Repairers**

Median Wage: $66,535
Annual Openings: 5,019
10-Year Growth: 19%


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