

Junior High Academic Guide

2025-2027
HISTORY

Math

Sports

BOARD OF TRUSTEES

MATT ROMERO
President

JULIE COLE
Vice-President

CHRIS BROWN
Secretary



JOE HARRINGTON, Ed.D.
Superintendent of Schools

BOARD OF TRUSTEES

DR. JOHN BIGGAN

FRED CAMPOS

ANDY CARGILE

BECKY EWART

Parents and Students:

The Hurst-Eules-Bedford ISD vision statement is “Empowering Today To Excel Tomorrow”. This academic planning guide provides the information for our students to achieve this vision. The Department of Counseling and Guidance has prepared this guide to assist students and parents in making course selections that will meet each student’s individual needs for the future as well as meet high school graduation requirements. It is very important that students and parents use the information in this guide to select courses for next year so that both are fully aware of all available opportunities.



We understand that choosing the right courses and graduation plan can be difficult. A detailed description of the four-year plan and available endorsements provided by HEB ISD are included in this planning guide. While this process may seem complex, you should be encouraged to know that we have an entire team of counselors and campus staff ready to help guide you. The academic programs in HEB ISD are rigorous and relevant to your needs, not only today, but for tomorrow. We encourage you to challenge yourself when choosing courses, and choose a career path that will help you achieve all of your aspirations.

Students are encouraged to discuss course selections with their parents prior to completing the course selection materials. Even though counselors will inform, monitor, and advise students and parents regarding graduation plans and course requirements, it is ultimately the decision of the student and parent to select the courses that are required for the student’s preferred graduation plan.

On behalf of the HEB ISD staff and the Board of Trustees, I wish you success in your high school years. Our commitment in HEB ISD is to provide the opportunity for all students to achieve at their highest level.

Sincerely,

A handwritten signature in black ink, appearing to be "Joe Harrington".

Joseph Harrington, Ed.D.
Superintendent of Schools

1849 A Central Drive, Bedford, Texas 76022-6096 817.283.4461
www.hebisd.edu

AN EQUAL OPPORTUNITY EMPLOYER

Table of Contents

SEVENTH AND EIGHTH GRADE CURRICULUM.....	4
COUNSELING AND GUIDANCE.....	5
GRADING AND REPORTING TO PARENTS.....	5
GRADE SCALE AND GRADE POINT EQUIVALENTS	5
SECONDARY GRADE BOOK TEMPLATE.....	6
CONDUCT GRADES	6
PROMOTION AND RETENTION.....	6
STAAR (STATE OF TEXAS ASSESSMENTS OF ACADEMIC READINESS).....	6
DEFINITIONS.....	7
HIGH SCHOOL GRADUATION REQUIREMENTS.....	11
CAREER AND TECHNICAL EDUCATION	17
HEB ISD CTE FRAMEWORKS	21
ENGLISH LANGUAGE ARTS	99
READING	100
SPEECH.....	100
MATH	101
MISCELLANEOUS	102
PHYSICAL EDUCATION/HEALTH/ATHLETICS	102
SCIENCE.....	103
SOCIAL STUDIES.....	103
VISUAL AND PERFORMING ARTS	104
ART	104
MUSIC	104
THEATRE.....	106
WORLD LANGUAGE	107
SPECIAL EDUCATION COURSES OFFERINGS	110
HEB ISD SUMMER SCHOOL EQUAL OPPORTUNITY STATEMENTS	117

JUNIOR HIGH SCHOOLS

Bedford Junior High School
Mrs. Katie Harrell , Principal
325 Carolyn Drive
Bedford, TX 76021 (817) 788-3101

Euless Junior High School
Dr. Anmarie Garcia, Principal
306 West Airport Freeway
Euless, TX 76039 (817) 354-3340

Hurst Junior High School
Ms. Bianca Johnson, Principal
500 Harmon Road
Hurst, TX 76053 (817) 285-3220

Central Junior High School
Mr. Michael Lawton, Principal
3191 West Pipeline Road
Euless, TX 76040 (817) 354-3350

Harwood Junior High School
Dr. Cameron Ramirez, Principal
3000 Martin Drive
Bedford, TX 76021 (817) 354-3360

SEVENTH AND EIGHTH GRADE CURRICULUM

Students are required to take certain courses in grades 7 and 8. Required courses are listed under the appropriate year. A fine arts course is required in 7th or 8th grade. Electives are to be chosen to fill a seven-period day. Electives are offered on each campus based on student requests and the availability of staff. Although efforts are made to provide students with their elective choice, scheduling conflicts may make that impossible. Consequently, students are asked to rank electives 1, 2, 3, etc., according to preference, to assist in the scheduling process. Use the descriptions in this booklet to review courses, and write your selections in the spaces below.

SEVENTH GRADE (Required Courses):

1. English
2. Science
3. Math
4. Texas History & Geography
5. P.E. or Athletics
6. Reading

This course is intended for the student who needs continued reinforcement of fundamental reading skills. Exemption from this course is based on district criteria.

7. STAAR Math

This course is intended for the student who needs continued reinforcement of fundamental math skills. Exemption from this course is based on district criteria.

ELECTIVES: Choose electives from your school list.

SEMESTER ONE

1. _____
2. _____
3. _____
4. _____
5. _____
6. Elective or STAAR Reading _____
7. Elective or STAAR Math _____

EIGHTH GRADE (Required Courses):

1. English
2. Science
3. Math
4. U.S. History
5. Elective
6. Reading

This course is intended for the student who needs continued reinforcement of fundamental reading skills. Exemption from this course is based on district criteria.

7. STAAR Math

This course is intended for the student who needs continued reinforcement of fundamental math skills. Exemption from course is based on district criteria.

ELECTIVES: Choose elective from your school list.

SEMESTER TWO

1. _____
2. _____
3. _____
4. _____
5. _____
6. Elective or STAAR Reading _____
7. Elective or STAAR Math _____

COUNSELING AND GUIDANCE

All junior high schools have counselors to help students and parents. The counselors provide specialized help for individual students as well as group programs to help students adjust to life and school situations, to select courses monitor the students' academic progress through the Hurst-Euless-Bedford schools. Counselors work closely with eighth grade students and parents to establish a tentative high school graduation plan. Parents are encouraged to participate in this project.

GRADING AND REPORTING TO PARENTS

Report cards will be issued at the end of each six weeks. At three weeks, the subject area teachers will send progress reports. Every effort will be made to contact parents of students who are not passing. Tutorials will be available to all students.

GRADE SCALE – 7th and 8th grade

Students earn numerical grades in all subject areas. Grades from 70-100 are passing and grades of 69 or below are failing.

A+ = 98-100	B+ = 87-89	C+ = 77-79	F = 69 and below
A = 93-97	B = 83-86	C = 73-76	
A- = 90-92	B = 80-82	C- = 72-70	

Minimum Number of Grades

The minimum number of major and minor grades are determined by the following **Secondary Grade Book Templates**.

GRADE SCALE AND GRADE POINT EQUIVALENTS

Courses designated as AdvAc, Dual Credit, and certain selected and approved CTE courses will fall on the Tier II scale. In most cases, courses that culminate in a national or international exam, i.e. Advanced Placement, International Baccalaureate, and other District determined courses will fall on the Tier III scale. All other courses will fall under the Tier I scale. 8th grade courses for high school credit are calculated into the student's high school GPA using the scale below.

<u>NUMERICAL</u>	<u>Tier III</u>	<u>Tier II</u>	<u>Tier I</u>
98-100	6.000	5.000	4.000
93-97	5.666	4.666	3.666
90-92	5.333	4.333	3.333
87-89	5.000	4.000	3.000
83-86	4.666	3.666	2.666
80-82	4.333	3.333	2.333
77-79	4.000	3.000	2.000
73-76	3.666	2.666	1.666
70-72	3.333	2.333	1.333
Below 70	0	0	0

SECONDARY GRADE BOOK TEMPLATES

Department	Course Type*	Category A (Major Grades)	Minimum Assignments	Category B (Minor Grades)	Minimum Assignments
Fine Arts	All	60%	2	40%	6
Language Arts	On Level	50%	2	50%	8
	Advanced	60%	3	40%	8
Math	On Level	50%	2	50%	8
	Advanced	60%	2	40%	8
Science	On Level	50%	2	50%	8
	Advanced	60%	2	40%	8
Social Studies	On Level	50%	3	50%	8
	Advanced	60%	3	40%	8
CTE	On Level	50%	2	50%	6
	Advanced	60%	2	40%	6
World Language	On Level	50%	2	50%	8
	Advanced	60%	2	40%	8
PE/Athletics	All	80%	1	20%	6
Health	All	50%	2	50%	10

* **Advanced Courses** include Honors, AdvAc, AP, and IB.

^ All Level 1 world language courses are classified as On Level, even if taken in 7th or 8th grade.

CONDUCT GRADES

Student conduct grades may affect eligibility for participation in some extracurricular activities.

E = Excellent S = Satisfactory I = Needs Improvement U = Unsatisfactory

PROMOTION AND RETENTION

In grades 7-8, promotion to the next grade level shall be based on a final average of 70 on a scale of 100 based on course-level, grade-level standards (essential knowledge and skills) for all core subject areas (English, Math, Science, Social Studies), plus passing grades on STAAR.

STAAR (State of Texas Assessment of Academic Readiness)

State legislation requires all students to take the STAAR assessments. 7th graders will take STAAR Reading and Math, 8th graders will take STAAR Reading, Math, Science & Social Studies assessments. Students will be required to take the STAAR EOC (End of Course) assessments as part of their graduation requirement. Students will be required to take EOC assessments in English 1, English 2, Algebra 1, Biology, and US History.

DEFINITIONS

ADVANCED ACADEMICS COURSES – Advanced Academics courses (AdvAc), previously called Pre-AP/IB courses, are designed to prepare students for success in both Advanced Placement® and International Baccalaureate® courses. AdvAc courses are more rigorous and thus carry more weight than their on-level counterparts carry. AdvAc courses fall in Tier 2 on the HEB ISD GPA/Grade scale.

Advanced Placement® courses, offered in junior high and high school, and courses in the International Baccalaureate® Program, offered in 11th and 12th grade, earn Tier 3 credit on the HEB ISD GPA/Grade scale, since they culminate in national or international exams.

DISTRICT PHILOSOPHY FOR ADVANCED STUDENTS

Hurst-Euless-Bedford ISD is committed to providing comprehensive, balanced, and rigorous curricula combined with challenging assessments for advanced academics students. Students are encouraged to develop their individual talents and surpass their personal expectations. Strong emphasis is placed on critical thinking, lifelong learning, and a respect for a variety of cultures that contributes to the richness of life. The goal of HEB ISD is to offer all students who exhibit ability, commitment, and responsibility an opportunity to participate in advanced academics courses. The expectation remains that advanced academic courses continue to be college preparatory in nature and that the content will not be modified to a lower standard. In contrast, the demands of advanced academics classes will only continue to increase as our district moves toward a more comprehensive preparation program for our college-bound students.

PROCEDURES FOR ADMISSION INTO ADVANCED ACADEMICS COURSES

Criteria for admission include the following indicators, which predict student success in an advanced academic course:

1. District required standard on state assessment
2. Grade of 85 in subject area for which student is applying (for 7th grade English, combo of 6th grade English and Reading)
3. A score of 110 on a related aptitude test

WAIVER PROCESS

Students who do not meet all of the above criteria yet are interested in taking advanced classes must contact their counselor for information concerning the waiver process. At the entry level, it is better to offer all students who exhibit ability, commitment, and responsibility an opportunity to participate in advanced academic courses.

CONTINUATION/PROCEDURE FOR EXIT

In order to continue in an advanced academics course, students must maintain an average of 70.

If the grade is 70 or below at the end of the first six weeks, the student will be placed on probation. At this time, the teacher must initiate a parent conference. If the student fails to earn the required 70 average at the end of the probationary period, his or her status will be reviewed, and placement in a regular level class will be considered. Students must maintain passing standard on the state assessment related to advanced academic classes.

STUDENTS FROM OTHER DISTRICTS

At the time of registration, a student who can furnish proof that he/she has successfully completed an advanced academics course is automatically eligible to register for and an advanced class in that subject area. For students requesting an advanced class for the first time, the counselor will review the student's records/performance. The student, counselor, and parent decide on appropriate placement.

ADVANCED ACADEMICS COURSE OFFERINGS - Available weighted courses are listed in the appropriate subject area divisions.

ADVANCED PLACEMENT – Challenging courses offered at the high school level, which utilize college-level curricula to prepare students for the College Board AP examinations. The AP Program provides students with the opportunity to earn advanced placement, college credit, or both at many universities and colleges across the country. AdvAc courses are offered in Junior High School to prepare students to move into the AP courses.

CAREER AND TECHNICAL EDUCATION (CTE) – Programs of study that guide students in a career pathway that provide relevant learning experiences through rigorous and experiential curriculum, leading to post-secondary education and career readiness.

[HEB ISD CTE](#)

CLASS RANKING – A system of placing students in descending order according to their cumulative grade point averages. A class rank is assigned to all seniors and is used in the college admission process.

COLLEGE AND CAREER READY:

HEB ISD is focused on making sure students are College-and-Career Ready by the time they graduate from high school. Students are considered College-and-Career Ready if they meet at least one of the following criteria

1. Complete a CTE Coherent sequence of courses (Concentrator: A student who has completed 2 or more courses for at least 2 credits in a single program of study. Completer: A student who has completed 3 or more courses for 4 or more credits including a level 3 or level 4 course in a single program of study) in addition to earning a nationally recognized industry certification.
2. Performs at or above criterion score on one or more AP/IB exams (AP minimum score of 3; IB minimum score of 4)
3. Completes 3 hours in ELA (including speech) or Math, OR 12 hours or more of earned post-secondary (dual) credit in any course.
4. Achieves TSI benchmark standard (may combine):
 - ACT – Composite score of 23 or higher with at least a 19 on the English and math sections
 - SAT – A minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. There is no combined score.
 - TSI – See counselor for information.
 - College Preparatory Course- Texas College Bridge for English and/or math.
5. Enlists in the U.S. Armed Forces and provides the DD Form 4, Enlistment/Reenlistment Document.

CREDIT - A unit value given to each class taken and passed in grades 9-12, as well as some courses in grades 7 and 8. Credits are awarded at the end of each semester or trimester.

CREDIT BY EXAMINATION WITHOUT PRIOR INSTRUCTION (Examination for Acceleration) - The opportunity for students to TEST OUT of a course without prior formal instruction in the course: To earn credit, the student must make a score of 80 or above. Applications must be completed and turned in with the necessary signatures by the published deadline. Additional testing for certain one-trimester/semester courses may be offered at other times during the year. Applications and further details are available in the counseling department or the assessment department.

CREDIT FOR OFF CAMPUS ENRICHMENT PROGRAMS: HEB ISD does not award credit for any student enrichment program sponsored by an outside entity. Course credit is awarded based on school board policy.

ELECTIVE - A course that a student chooses to take although not specifically required.

ENDORSEMENT – All students who begin 9th grade in 2014-2015 and thereafter will be required to earn an endorsement for graduation. Prior to entering 9th grade, students are required to declare a chosen program of study, or endorsement, which will help in guiding course elective choices throughout high school. Students may earn a single endorsement, or multiple endorsements in the areas of: Arts & Humanities; Business and Industry, Multidisciplinary Studies, Public Service, or STEM (Science, Technology, Engineering, & Math.) Students wishing to change their declared endorsement must follow the HEB ISD process and should see their assigned counselor if they wish to change. Students may not change their endorsement choice until after the 10th grade year.

FOUNDATION GRADUATION PROGRAM – Every student in a Texas public school who entered grade 9 in the 2014-15 school year and thereafter will graduate under the “foundation graduation program.” Within the foundation graduation program are “endorsements,” which are paths of interest that include Science, Technology, Engineering, and Mathematics (STEM); Business and Industry; Public Services; Arts and Humanities; and Multidisciplinary Studies. Endorsements earned by a student will be noted on the student’s transcript. The foundation graduation program also involves the term “distinguished level of achievement,” which reflects the completion of at least one endorsement and Algebra II as one of the required advanced mathematics credits. A **Personal Graduation Plan** will be completed for each high school student. State law and rules prohibit a student from graduating solely under the foundation graduation program without an endorsement unless, after the student’s sophomore year, the student and student’s parent are advised of the specific benefits of graduating with an endorsement and submit written permission to the school counselor for the student to graduate without an endorsement. A student who anticipated graduating under the foundation graduation program without an endorsement and who wishes to attend a four-year university or college after graduation must carefully consider whether this will satisfy the admission requirements of the student’s desired college or university. Graduating under the foundation graduation program will also provide opportunities to earn “performance acknowledgments” that will be acknowledged on a student’s transcript. Performance acknowledgments are available for outstanding performance in bilingualism and biliteracy, in a dual credit course, on an AP or IB examination, on certain national college preparatory and readiness or college entrance examinations, or for earning a state recognized or nationally or internationally recognized license or certificate. The criteria for earning these performance acknowledgments are prescribed by state rules, and the school counselor can provide more information about these acknowledgments. A student is not required to complete an Algebra II course to graduate under the foundation program, and the district will annually notify a student’s parent of this fact. However, the student and parent should be aware that not taking Algebra II will make a student ineligible for automatic admission to four-year public universities and college in Texas and for certain financial aid and grants while attending those institutions.

[Texas Education Agency Graduation Toolkit](#)

GIFTED AND TALENTED - The HEB ISD selection process to identify a student as gifted and talented consists of a nomination for the program from a teacher, parent, administrator, or the student. Identification is based on a student portfolio with a written defense of a best piece, ability and aptitude test scores, and checklists from teachers, parents, and the student. A committee trained in gifted education makes decisions on identification. Specific information on identification, exit, and furlough procedures is available in the counselor’s office or through the office of the Advanced Academics Coordinator at the HEB ISD Administration Office. All teachers of advanced academics classes are required to have a gifted certification with annual updates. Identified gifted students for grades 7-8 are served in the four core areas in various ways.

Grade 7: AdvAc/GT English 7; AdvAc Math; Cluster grouping in Texas History and Science

Grade 8: AdvAc/GT English 8; AdvAc Algebra 1; AdvAc U.S. History; AdvAc Science

GPA - (Grade Point Average) A system of assigning value to grades using the district’s adopted scale. All semester or trimester grades for courses earning High School credit are included in the GPA.

GRADUATION PLAN – This is the course of study necessary to fulfill the requirements for graduation. The default plan for all HEB ISD students who enter 9th grade in 2014-2015 and after is the Distinguished Level of Achievement Plan (DLA). This plan requires 26 credits (4 credits each in English, Mathematics, Science, and Social studies, 2 credits in World Languages, 1 credit each in Visual/Performing Arts and PE, ½ credit each in Speech and Health, and 5 credits of electives leading to an endorsement, one which must be from technology. Students may choose to opt out of the DLA plan to graduate, but are not allowed to do so until after the 10th grade year unless the student has an ARD committee that makes that determination. Students wishing to opt out of the DLA should see their school counselor.

INTERNATIONAL BACCALAUREATE – The International Baccalaureate program is a comprehensive, rigorous curriculum developed and recognized internationally for highly motivated students in grades 11 and 12. Courses leading to the International Baccalaureate Diploma will be offered to interested students in 9th and 10th grades. Students apply for the IB program in their sophomore year. Students enrolled as IB diploma candidates must take exams in six subject areas and satisfactorily complete the core of the IB Curriculum, which includes CAS (Creativity, Activity, and Service hours); theory of knowledge essay and presentation; and research requirements culminating in a 4,000-word extended essay. Successful completion of the IB course work and examinations at the junior/senior level may earn students an International Baccalaureate diploma as well as credit or advanced placement at colleges and universities around the world. Current Texas law requires that every International Baccalaureate diploma holder whose IB test scores are 4 and above will be granted a minimum of 24 college hours at public colleges in Texas. The International Baccalaureate educational experience will provide students with the intellectual, social, critical, and global perspective for success in post-secondary education and beyond. Additional information about the IB program is available on the HEB ISD website and the IB website; you can also contact the IB Coordinators at the high school campus you will be attending.

LANGUAGES OTHER THAN ENGLISH – Students are required to earn two credits in the same language other than English to graduate. Any student may substitute computer-programming languages for these credits. A student may satisfy one of the two required credits by successfully completing in elementary school a dual language immersion program. In limited circumstances, a student may be able to substitute this requirement with other courses, as determined by a district committee authorized by law to make these decisions for the student.

PREREQUISITE - A requirement that must be met in order to qualify to take a specific course.

REQUIRED COURSE - A specific course that a student must take and pass to be promoted to the next grade and ultimately to graduate from high school.

SEMESTER - An 18-week segment of the 9-month school year. Two semesters make up the school year on the junior high campuses.

TEXAS VIRTUAL SCHOOL NETWORK

Texas Education Code 26.0031 requires that at the time and in the manner that a school district or open-enrollment charter school informs students and parents about courses that are offered in the district's school's traditional classroom setting, the district or school shall notify parents and students of the option to enroll in a course offered through the state virtual school network under Chapter 30A. See <http://www.txvsn.org/documents/TEC25.0031.pdf>. If a student chooses to enroll in a Texas Virtual School Network (TXVSN) course, they **MUST** have counselor approval. For more information, please see your counselor.

TRIMESTER - A 12-week segment of the 9-month school year. Three trimesters make up the school year with credits granted at the end of each trimester. HEB ISD high schools follow a trimester plan.

WEIGHTED GPA – A grade point scale that assigns more points to grades earned in certain classes.

XELLO - Software program to help 8th-12 grade students explore interests and career options, create and monitor a four-year graduation plan, research college and post-secondary options and achieve school, career and life goals.
<https://xello.world/en/>

Graduation Requirements for Students Beginning 9th Grade in 2014-2015 or After

The default plan for HEB ISD students is the Distinguished Level of Achievement Plan, which includes one endorsement choice. Multiple endorsements are possible.

ENGLISH LANGUAGE ARTS _____ Four credits: *English I *English II - English III - English IV MATHEMATICS _____ Four credits: *Algebra I - Geometry OR <u>Algebraic Reasoning followed by Algebra II</u> OR <u>Algebra II followed by a 4th math credit</u> SCIENCE _____ Four credits: *Biology - Advanced Science Courses (3 credits-must include Chemistry or Physics) SOCIAL STUDIES _____ Four credits: - World Geography - World History *U.S. History - U.S. Government (one-half credit) - Economics (one-half credit) PHYSICAL EDUCATION _____ One credit LANGUAGES OTHER THAN ENGLISH _____ Two credits in the same language FINE ARTS _____ One credit SPEECH _____ One-half credit - must be Professional Communications, Debate, Oral Interpretation or Communication Applications HEALTH _____ One half-credit TECHNOLOGY _____ One Credit ELECTIVES FOR ONE ENDORSEMENT _____ Four credits TOTAL CREDITS: 26	ENDORSEMENT CHOICES STEM _____ <table style="width: 100%;"> <tr> <td>Science</td> <td>Technology</td> </tr> <tr> <td>Engineering</td> <td>Math</td> </tr> </table> BUSINESS AND INDUSTRY _____ - Architecture & Construction - Arts, AV Technology, & Communications - Business, Marketing, & Finance - Hospitality & Tourism - Information Technology - Manufacturing - Transportation, Distribution, & Logistics PUBLIC SERVICES _____ <table style="width: 100%;"> <tr> <td>Education & Training</td> <td>Health Science</td> </tr> <tr> <td>Human Services</td> <td>Law & Public Service</td> </tr> </table> ARTS AND HUMANITIES _____ <table style="width: 100%;"> <tr> <td>Art</td> <td>Dance</td> </tr> <tr> <td>Music</td> <td>Theater</td> </tr> <tr> <td>Social Studies</td> <td>World Languages</td> </tr> </table> MULTIDISCIPLINARY STUDIES _____ Allows a student to complete prescribed courses from: • Each of the four foundation subject areas • Advanced Placement / International Baccalaureate courses from each of the four foundation subject areas • 4 advanced courses from within one endorsement area or among endorsement areas not in a coherent sequence Beginning with the graduating class of 2022, all students must successfully complete and submit one of the following forms: • FAFSA (Free Application for Federal Student Aid) • TAFSA (Texas Application for State Aid) • Texas Education Agency's Opt-Out form Students will need to submit the form during the fall of their senior year in order to graduate from high school. It is the responsibility of each college-bound student to research admission requirements, as each college's requirements may differ.  HURST - EULESS - BEDFORD Independent School District	Science	Technology	Engineering	Math	Education & Training	Health Science	Human Services	Law & Public Service	Art	Dance	Music	Theater	Social Studies	World Languages
Science	Technology														
Engineering	Math														
Education & Training	Health Science														
Human Services	Law & Public Service														
Art	Dance														
Music	Theater														
Social Studies	World Languages														

*Course has a STAAR EOC.
The required passing standard must be met for each EOC in order for a student to receive a high school diploma.

PERFORMANCE ACKNOWLEDGMENT

A student may earn performance acknowledgments on their high school transcript for outstanding performance:

- In a dual credit course
- In bilingualism and biliteracy
- On an AP or IB exam
- On the PSAT, ASPIRE, SAT or ACT
- For earning a nationally or internationally recognized industry certification

Distinguished Level of Achievement

A student may earn a distinguished level of achievement by successfully completing:

- A total of four credits in mathematics, which must include Algebra II
- A total of four credits in science
- The remaining curriculum requirements
- The curriculum requirements for at least one endorsement

A student must earn distinguished level of achievement to be eligible for top 10% automatic admission to a Texas Public University. (Some are allowed stricter automatic entry standards.)

Health Credit Options

A student may earn the required Health credit/waiver by completing **two** semesters or trimesters of the following courses:

- Child Development
- Cosmetology I
- Counseling and Mental Health
- Health (1 trimester only)
- Human Growth & Development
- Principles of Health Science
- Principles of Human Services

Technology Credit Options

A student may earn the required Technology credit by completing **two** semesters or trimesters of one of the following courses:

- | | |
|--|---|
| • AdvAc Computer Science | • Graphic Design & Illustration |
| • Advanced Legal Skills & Professions | • Health Science Theory (Fire Academy) |
| • Animation | • Honors Health Science Theory/Clinical (Clinical ROT/Site/PCT) |
| • AP Computer Science Principles | • Honors Intro to Unmanned Aerial Vehicles |
| • Architectural Design | • Honors Robotics |
| • Audio/Video Production | • Instructional Practices |
| • Automotive Technology (Maintenance & Light Repair) | • Law Enforcement |
| • Business Information Management | • Networking |
| • Computer Maintenance | • Principles of Applied Engineering |
| • Computer Science | • Principles of Information Technology |
| • Cosmetology | • Robotics |
| • Culinary Arts | • Social Media Marketing |
| • Digital Media | • Video Game Design |
| • Engineering Design and Presentation | • Web Design |
| • Family & Community Services | • Welding |
| • Fundamentals of Computer Science | |

Arts & Humanities Endorsement

A student may earn an Arts & Humanities endorsement by completing the general graduation credit requirements and completing at least **one** of the following.

A total of five Social Studies credits in a coherent sequence

A coherent sequence of four credits by selecting courses from one or two disciplines from Art, Dance, Music, or Theatre

Four credits of the same language in a language other than English

Two credits of the same language in a language other than English and 2 levels of a different language in a language other than English

Four English elective credits by selecting from the following:

English IV

Creative Writing

IB English IV

Independent Study in English

AP English Literature & Composition (AP English IV)

IB Research and Technical Writing

Multidisciplinary Endorsement

A student may earn a Multidisciplinary Studies endorsement by completing the general graduation credit requirements and completing at least **one** of the following.

Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation

Four credits in each of the four foundation subject areas to include English IV and Chemistry and/or Physics.

Four credits in AP, IB, or Dual Credit selected from English, Math, Science, Social Studies, Economics, World Languages, or Fine Arts.

Business and Industry Endorsement

A student may earn a Business & Industry endorsement by completing the general graduation credit requirements with four elective credits in a sequence of courses in **one** of the following areas or a combination of courses from no more than two areas.

CCMR Credit:

CTE Completer plus earned IBC (Industry Based Certification) in aligned Program of Study.

CTE Completer:

A student who completes, passes, and receives credit for three or more CTE courses for at least four or more credits (course selection must include at least one level three or level four-course).

CTE Business and Industry-Related Programs of Study:

Architecture and Construction

Arts, Audio-Video Technology, and Communications

Business, Marketing and Finance

Cosmetology and Personal Care

Hospitality and Tourism

Information Technology

Manufacturing

Transportation, Distribution, and Logistics

Science, Technology, Engineering, Mathematics (STEM) Endorsement

A student may earn a STEM endorsement by completing the general graduation credit requirements (must include Algebra II, Biology, Chemistry, and Physics) with four credits from CTE STEM, or five Science or Math (must include two credits that have Algebra II as a prerequisite) credits.

CCMR Credit:

CTE Completer plus earned IBC (Industry Based Certification) in aligned Program of Study.

CTE Completer:

A student who completes, passes, and receives credit for three or more CTE courses for at least four or more credits (course selection must include at least one level three or level four-course).

Public Services Endorsement

A student may earn a Public Services endorsement by completing the general graduation credit requirements with four elective credits from one of the following programs of study.

CCMR Credit:

CTE Completer plus earned IBC (Industry Based Certification) in aligned Program of Study.

CTE Completer:

A student who completes, passes, and receives credit for three or more CTE courses for at least four or more credits (course selection must include at least one level three or level four-course).

CTE Public-Service-Related Programs of Study:

Education and Training

Health Science

Human Services

Law and Public Service

College, Career, Military Readiness

at HEB Independent School District



Students only have to meet one of the criteria listed below to be considered CCMR ready

College Readiness

- Meets criteria on the Texas Success Initiative (TSI) through either TSIA, SAT, or ACT exams (see scores below); **OR**

Assessment	Reading/ELAR	Math
TSIA	945+ OR 910-944 with a diagnostic level of 5-6; AND essay of 5-8	950+ OR 910-949 with a diagnostic level of 6
SAT	480	530
ACT	English + Reading Combined Score $\geq$ 40	22

- Meets criteria on IB exams with a score of 4 or higher on at least one test; **OR**
- Meets criteria on AP exams with a score of 3 or higher on at least one test; **OR**
- Earns an associates degree; **OR**
- Special Education students who graduate under an Advanced Degree Plan; **OR**
- Earns dual course credits with 3 credit hours in English or Math or 9 credit hours in any subject



Career Readiness

- Earns an industry-based certification (IBC) with completer status (at least 4 CTE credits in 3 or more courses, including one level 3 or 4 course in the same program of study); **OR**
- Special Education students who graduate with a completed IEP and workforce readiness

Military Readiness

- Enlist in the U.S. Armed Forces or Texas National Guard



CAREER AND TECHNICAL EDUCATION

Some courses may not be offered at all campuses. Class enrollment numbers may affect class offerings in the Career and Technical Education classes.

ARTS, AV TECHNOLOGY & COMMUNICATIONS



PROFESSIONAL COMMUNICATIONS (PROFCOMM 13009900)

Prerequisite:	None	Credit:	½
		GPA:	Tier I, 4.0
Grade Level:	8-12	Semesters:	1

Just about every field in today's job market uses communication and technology. This course will help students develop the effective communication skills necessary for successful participation in professional and social life. Professional Communication blends written, oral, and graphic communication in a career-based environment. The jobs of tomorrow will need students who are comfortable with technology, and are creative and effective communicators. The great news is that by the end of this course the learner will be comfortable, efficient, and poised for success when given the opportunity to speak in public. ***This course meets the speech requirement for high school graduation and counts as a high school credit.***

BUSINESS, MARKETING AND FINANCE



TOUCH SYSTEM DATA ENTRY (TSDATAE 13011300)

Prerequisite:	None	Credit:	1/2	GPA:	Tier I, 4.0
Grade Level:	7-9	Semesters:	1		

In this course students develop keyboarding and touch typing skills as well as correct typing techniques via the use of the computer. Students are taught advanced word processing skills and design concepts in desktop publishing. Students become proficient in the use of computers to enhance their preparation for college and/or their occupation. ***This course DOES NOT meet any part of the technology requirement for high school graduation, but counts as a high school credit.***

FOUNDATIONS OF BUSINESS COMMUNICATION AND TECHNOLOGIES (BIM I) (FDBUSI 13011400)

Prerequisite:	None	Credit:	1	GPA:	Tier I, 4.0
Grade Level:	8-12	Semesters or Trimesters:	2		

This course provides orientation to word processing, database, spreadsheet and multi-media presentation applications. Students apply technical skills to address business applications for emerging technologies. Students will test for Microsoft Office Specialist Certification in Word, Excel, and PowerPoint. ***This course meets the technology requirement for high school graduation and counts as a high school credit.***

CAREER DEVELOPMENT



Career
Development

COLLEGE AND CAREER EXPLORATION (1270110)

Prerequisite:	None	Credit:	0
Grade Level:	7-8	Semesters:	1

Students will focus on themselves as individuals to accomplish individual academic and personal goals in the future. The course will focus on careers as well as successful transitioning to high school. Teamwork and goal setting will be taught to encourage self-worth and self-knowledge. Financial management will be included to prepare students for daily living and managing expenses. Budgeting and debt will be discussed as well. This course is designed to help students prepare for successful independent living. This course allows students to see their strengths to connect to correct career path.

INVESTIGATING CAREERS – BUSINESS, MARKETING & FINANCE (82970101)

Prerequisite:	None	Credit:	0
Grade Level:	7-8	Semesters:	1

The goal of this course is to create a foundation for success in high school, future studies, and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction for their career choice. Emphasis in the further studies in the business career cluster.

INVESTIGATING CAREERS – COMPUTER SCIENCE (82970101) *only available at Euless JH*

Prerequisite:	None	Credit:	0
Grade Level:	7	Semesters:	1

The goal of this course is to create a foundation for success in high school, future studies, and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction with their career choice. Emphasis in further studies in computer science, computational thinking, and coding.

INVESTIGATING CAREERS – CYBERSECURITY (82970101) *only available at Hurst JH*

Prerequisite:	None	Credit:	0
Grade Level:	7	Semesters:	1

The goal of this course is to create a foundation for success in high school, future studies and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction with their career choice. Emphasis in further studies in cybersecurity.

INVESTIGATING CAREERS – ENGINEERING (82970101) *only available at Central JH*

Prerequisite:	None	Credit:	0
Grade Level:	7	Semesters:	1

The goal of this course is to create a foundation for success in high school, future studies, and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction for their career choice. Emphasis in the further studies in engineering.

INVESTIGATING CAREERS – HUMAN SERVICES (82970101)

Prerequisite: None	Credit: 0
Grade Level: 7-8	Semesters: 1

The goal of this course is to create a foundation for success in high school, future studies, and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction for their career choice. Emphasis in the further studies in human services including counseling and mental health, early childhood development, family and community, and personal care services.

INVESTIGATING CAREERS – ROBOTICS (82970101) *only available at Central JH*

Prerequisite: None	Credit: 0
Grade Level: 7	Semesters: 1

The goal of this course is to create a foundation for success in high school, future studies, and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction for their career choice. Emphasis in the further studies in robotics.

INVESTIGATING CAREERS – SCIENCE, TECHNOLOGY, ENGINEERING, & MATH (82970101)

Prerequisite: None	Credit: 0
Grade Level: 7-8	Semesters: 1

The goal of this course is to create a foundation for success in high school, future studies, and various careers. The content for this course was developed to help students succeed in current and emerging professions. Students will better understand themselves to help them have a clearer sense of direction for their career choice. Emphasis in further studies in science, technology, engineering, and mathematics.

HUMAN SERVICES



PRINCIPLES OF HUMAN SERVICES (PRINHUSR 13024200)

Prerequisite: None	Credit: 1	GPA: Tier I, 4.0
Grade Level: 8-9	Semesters: 2	

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. **Successful completion of BOTH semesters fulfills the health graduation requirement, and counts as a high school credit.**

INFORMATION TECHNOLOGY



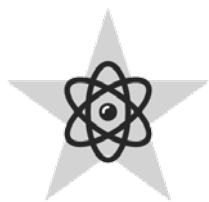
Information Technology

PRINCIPLES OF INFORMATION TECHNOLOGY (PRINIT 13027200) *only available at Hurst JH*

Prerequisite:	None	Credit:	1	GPA: Tier I, 4.0
Grade Level:	8	Semesters:	2	

This course is part of the Cybersecurity program of study offered at Hurst Junior High School. Students will begin to develop computer literacy skills to adapt to the emerging technologies used in the global marketplace. Students will engage in a series of hands-on projects to improve the problem-solving and critical thinking skills and apply them to the information technology field by learning how to protect personal privacy online and gain insight on the challenges companies, government agencies, and educational institutions face today. ***This course meets the technology requirement for high school graduation and counts as a high school credit.***

SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS



Science, Technology, Engineering & Mathematics

PRINCIPLES OF APPLIED ENGINEERING (PRAPPENG 13036200)

Prerequisite:	None	Credit:	1	GPA: Tier I, 4.0
Grade Level:	8-9	Semesters:	2	

This course is an overview of technology with application of knowledge from many fields like biotechnology, communication, computer applications, construction, energy, power, transportation, and manufacturing. Students discover the link between engineering and technology while utilizing varied computer programs and many hands on design, team, and technology projects. Activities include bridge building, product design, and many other hands on activities with specialized computer design programs, tools, machines, and teamwork. Students build scale models and prototypes; learn emerging technologies, technology history, workplace safety, career possibilities, and college and career information. A primary goal is the application of science, technology, engineering and math to everyday life. ***This course meets the technology requirement for high school graduation and counts as a high school credit. An accelerated class with Tier II GPA is available for qualified students at Central Junior High.***

HONORS FUNDAMENTALS OF COMPUTER SCIENCE (TAFCS 003580140) *only available at Eules JH*

Prerequisite:	None	Credit:	1	GPA: Tier II, 5.0
Grade Level:	8	Semesters:	2	

In Honors Fundamentals of Computer Science course, there is a unique focus on creativity and problem solving. Students explore several important topics of computing, such as programming, digital citizenship, networks, and web design. ***This course meets the technology requirement for high school graduation and counts as a high school credit.***



CTE Programs of Study Frameworks



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.

CTE Programs of Study Frameworks

School Year 2025 - 2027



**Career & Technical
Education**

Hurst - Euless - Bedford
Independent School District



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

	Architecture and Construction Career Cluster	24
	Arts, Audio/Visual Technology, and Communications Career Cluster.....	27
	Business, Marketing, and Finance Career Cluster	32
	Education and Training Career Cluster	41
	Engineering Career Cluster	44
	Health Science Career Cluster	55
	Hospitality and Tourism Career Cluster	62
	Human Services Career Cluster	65
	Information Technology Career Cluster	72
	Law and Public Service Career Cluster.....	85
	Manufacturing Career Cluster.....	90
	Transportation, Distribution, and Logistics Career Cluster	95

ARCHITECTURAL DRAFTING & DESIGN



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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.





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.

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 Completer 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) Fusion 360
- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Revit Architecture



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%

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



For more information visit:

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

Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

Architectural Drafting and Design Statewide Program of Study



The Architectural Drafting and Design program of study explores the occupations and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching and preparing maps, and interior design.

Secondary Courses for High School Credit

Level 2

- Architectural Design I (1 Credit)
IBC: Autodesk Associate (Certified User) Revit Architecture
- Interior Design I (1 Credit)
IBC: Autodesk Associate (Certified User) 3ds Max

Level 3

- Honors Architectural Design II (1 Credit)
- Honors Interior Design II (1 Credit)

Level 4

- Honors Practicum in Architectural Design (2 Credits)
- Honors Extended Practicum in Architectural Design (3 Credits)
- Honors Practicum in Interior Design (2 Credits)
- Honors Extended Practicum in Interior Design (3 Credits)

Other Course Industry-Based Certifications (IBC's)

Autodesk Certified Professional in Auto CAD for Design and Drafting
Autodesk Associate (Certified User) Fusion 360

Pathway to Completer

Level 2	CTA0010/11/12 Architectural Design I (1 Credit) CTA0020/21/22 Interior Design 1 (1 Credit)
Level 3	CTP0013/14 Honors Architectural Design II (2 Credits) CTA0061/62 Honors Interior Design II (2 Credits)
Level 4	CTA0041/42 Honors Practicum in Architectural Design (2 Credits)* CTA0071/72 Honors Practicum in Interior Design (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Architectural Drafting and Design Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

**DIGITAL
COMMUNICATIONS**

**GRAPHIC
DESIGN AND
INTERACTIVE
MEDIA**



**ARTS, AUDIO/VISUAL
TECHNOLOGY AND
COMMUNICATION**

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>

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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.





Arts, Audio Visual Technology and Communication Career Cluster

The Arts, Audio Visual Technology and Communication (AAVTC) 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.

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
- Adobe Certified Professional in Visual Design Using Pro Adobe Photoshop

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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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 IBCs/Licensures

- CompTIA Digital Media and Entertainment Professional Certification (DMEP)



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%

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



For more information visit:

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

Arts, Audio Visual Technology, and Communication Career Cluster

The Arts, Audio Visual Technology, and Communication (AAVTC) 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.

Digital Communications Statewide Program of Study



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

Level 1

- Professional Communications (.5 Credit)

Level 2

- Audio/Video Production I (1 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Audio/Video Production II + Audio/Video Production II Lab (2 Credits) *IBC: Adobe Certified Professional in Digital Video Using Adobe Premiere Pro*

Level 4

- Honors Practicum in Audio/Video Production (2 Credits)
- Honors Extended Practicum in Audio/Video Production (3 Credits)

Other Course Industry-Based Certifications (IBC's)

Adobe Certified Professional in Visual Design Using Adobe Photoshop

Pathway to Completer

Level 1	CTV0000 Professional Communication (.5 Credit)
Level 2	CTV0001 Audio/Video Production I (1 Credit) CTM0021/2 Entrepreneurship I (1 Credit)
Level 3	CTV0021/22 Audio/Video Production II (2 Credits)
Level 4	CTV0031/32 Honors Practicum in Audio/Video Production (2 Credits)*

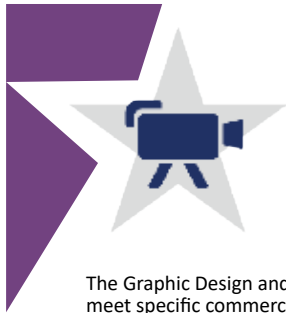
*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Digital Communications Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



Arts, Audio Visual Technology and Communication Career Cluster

The Arts, Audio Visual Technology and Communication (AAVTC) 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.

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 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 CTSO (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 (PCEP)
- Certified User: Programmer
- CodeHS Python Level I Certification

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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



Successful completion of the Graphic Design and Interactive Media program of study will fulfill requirements of the Business and Industry endorsement.



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 IBCs/Licensures

- 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%

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



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

Arts, Audio Visual Technology, and Communication Career Cluster

The Arts, Audio Visual Technology, and Communication (AAVTC) 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.

Graphic Design and Interactive Media Statewide Program of Study



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 and 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

Level 1

- Video Game Design (1 Credit)
- Digital Media (1 Credit)

Level 2

- Video Game Programming (1 Credit)
- Graphic Design and Illustration I (1 Credit) *IBC: Adobe Certified Professional in Visual Design Using Adobe Photoshop*
- Animation 1 (1 Credit)
- Commercial Photography I (1 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Advanced Video Game Programming (1 Credit) *IBC: Certified User-Programmer*
- Graphic Design and Illustration II +Graphic Design and Illustration II Lab (2 Credits)
IBC: Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator

- Animation II + Animation II Lab (2 Credits) *IBC: Autodesk Associate (Certified User) 3ds Max*
- Commercial Photography II (1 Credit)

Level 4

- Honors Practicum in Graphic Design and Illustration (2 Credits)
- Honors Extended Practicum in Graphic Design and Illustration (3 Credits)
- Honors Practicum in Animation (2 Credits)
- Honors Extended Practicum in Animation (3 Credits)
- Honors Practicum in Commercial Photography (2 Credits)
- Honors Extended Practicum in Commercial Photography (3 Credits)
- Honors Independent Study in Technology Applications (1 Credit)

Other Course Industry-Based Certifications (IBC's)

*Certified Entry Level: Python Programmer (PCEP)
CodeHS Python Level 1 Certification
Adobe Certified Professional in Digital Video Using Adobe Premiere Pro*

Pathway to Completer

Level 1	CTV0050 Video Game Design (1 Credit) CTN0021 Digital Media (1 Credit - Home Campus)
Level 2	CTV0153 Video Game Programming (1 Credit) • CTV0081/82 Graphic Design and Illustration (1 Credit) CTV0011 Animation 1 (1 Credit) • CTM0021/22 Entrepreneurship I (1 Credit) CTV0061/62 Commercial Photography 1 (1 Credit - Home Campus (THS))
Level 3	CTV0153 Advanced Video Game Programming (1 Credit) CTV0070 Graphic Design and Illustration II (2 Credits) • CTV0012/13 Animation II (2 Credits) CTV0063/64 Commercial Photography II (1 Credit - Home Campus (THS))
Level 4	CTV0083/84 Honors Practicum in Graphic Design and Illustration (2 Credits)* CTV0044/45 Honors Practicum in Animation (2 Credits)*
	CTV0065/66 Honors Practicum in Commercial Photography (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Graphic Design and Interactive Media Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

**ACCOUNTING
AND FINANCIAL
SERVICES**

**BUSINESS
MANAGEMENT**

ENTREPRENEURSHIP

**MARKETING
AND SALES**



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>

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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.

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.

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)



Example Postsecondary Opportunities

Associate Degrees

- Accounting
- Bookkeeping

Bachelor's Degrees

- Accounting
- Banking and Financial Support Services

Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Finance

Additional Stackable IBCs/Licensures

- Project Management Professional
- Property Tax Consultants Service Contract Providers



Example Aligned Occupations

Tax Preparers

Median Wage: \$56,956
Annual Openings: 898
10-Year Growth: 14%

Accountants and Auditors

Median Wage: \$78,022
Annual Openings: 12,989
10-Year Growth: 20%

Personal Financial Advisors

Median Wage: \$77,605
Annual Openings: 1,877
10-Year Growth: 21%

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

For more information visit:

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



Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).

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.

Accounting and Financial Services Statewide Program of Study



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

Level 1

- Principles of Business, Marketing, and Finance (1 Credit)
- Foundations of Business Communications & Technologies (1 Credit)

IBC: Microsoft Office Specialist: Microsoft Excel Expert

Level 2

- Accounting I (1 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Accounting II (1 Credit)

Level 4

- Honors Practicum in Business Management (2 Credits)
- Honors Extended Practicum in Business Management (3 Credits)

Pathway to Completer

Level 1	CTB0001/02 Principles of Business, Marketing, and Finance (1 Credit) CTB0011/12 Foundations of Business Communications & Technologies (1 Credit)
Level 2	CTF0011/12 Accounting I (1 Credit) CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTF0021/22 Accounting II (2 Credits)
Level 4	CTB0071/72 Honors Practicum in Business Management (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Accounting and Financial Services Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



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.

Aligned Advanced Academic Courses

AP or IB	AP Microeconomics AP Statistics	IB Economics SL IB Economics 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 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: Microsoft Word Expert (Word 2019)
- Microsoft Office Specialist: Microsoft Excel Expert (Excel 2019)



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 IBCs/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%

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



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

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).

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.

Business Management Statewide Program of Study



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 (1 Credit)
- Foundations of Business Communications & Technologies (1 Credit)

Level 2

- Virtual Business (.5 Credit)
- Honors Business Communications & Technologies (1 Credit)
- IBC: Microsoft Office Specialist: Microsoft Excel Expert
- IBC: Microsoft Office Specialist: Microsoft Word Expert
- Entrepreneurship I (1 Credit)

Level 3

- Business Management (1 Credit)
- IBC: Entrepreneurship and Small Business
- Global Business (.5 Credit)

Level 4

- Honors Practicum in Business Management (2 Credits)
- Honors Extended Practicum in Business Management (3 Credits)

Other Course Industry-Based Certifications (IBC's)

Student Social Media Marketing Certification

Pathway to Completer

Level 1	CTB0001/02 Principles of Business, Marketing, and Finance (1 Credit) CTB0011/12 Foundations of Business Communications & Technologies (1 Credit)
Level 2	CTB0060 Virtual Business (.5 Credit) CTM0021/22 Entrepreneurship I (1 Credit)
	CTB0024/25 Honors Business Communications & Technologies (1 Credit)
Level 3	CTB0311/12 Business Management (1 Credit)
	CTB0041 Global Business (.5 Credit)
Level 4	CTB0071/72 Honors Practicum in Business Management (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Business Management Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Aligned Advanced Academic Courses

AP or IB	AP Statistics IB Mathematics: Analysis and Approaches
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 at a local start-up or a business incubator - Participate in the development and launch of a school-based enterprise
Expanded Learning Opportunities	- Job shadow an entrepreneur - Participate in a CTSO (Career & Technical Education Student Organization)

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 IBCs/Licensures

- 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%

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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](https://www.hebisd.edu/hebisdwebsite).

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.

Entrepreneurship Statewide Program of Study



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

Level 1

- Principles of Business, Marketing, and Finance (1 Credit)
- Foundations of Business Communications & Technologies (1 Credit)

Level 2

- Entrepreneurship I (1 Credit)
- IBC: Entrepreneurship and Small Business*

Level 3

- Entrepreneurship II (1 Credit) (Available 2026-2027)

Level 4

- Honors Practicum in Business Management (2 Credits)
- Honors Extended Practicum in Business Management (3 Credits)
- Honors Practicum in Marketing (2 Credits)
- Honors Extended Practicum in Marketing (3 Credits)
- Honors Practicum in Entrepreneurship (2 Credits) (Available 2026-2027)
- Honors Extended Practicum in Entrepreneurship (3 Credits) (Available 2026-2027)

Other Course Industry-Based Certifications (IBC's)

Student Social Media Marketing Certification

Pathway to Completer

Level 1	CTB0001/02 Principles of Business, Marketing, and Finance (1 Credit) CTB0011/12 Foundations of Business Communications & Technologies (1 Credit)
Level 2	CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTM0031/32 Entrepreneurship II (1 Credit)
Level 4	CTB0071/72 Honors Practicum in Business Management (2 Credits)*
	CTM0081/82 Honors Practicum in Marketing (2 Credits)* Honors Practicum in Entrepreneurship (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Entrepreneurship Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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 | <ul style="list-style-type: none"> Principles of Business, Marketing, and Finance Digital Media |
| Level 2 | <ul style="list-style-type: none"> Sports and Entertainment Marketing Virtual Business Entrepreneurship I |
| Level 3 | <ul style="list-style-type: none"> Advertising Social Media Marketing |
| Level 4 | <ul style="list-style-type: none"> 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.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Intern at a marketing and advertising company - Job shadow a pharmaceutical sales representative - Intern at a local retail company
Expanded Learning Opportunities	- Job shadow an account representative at a marketing firm - Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- Entrepreneurship and Small Business
- Student Social Media Marketing Certification

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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



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/Licensures

- 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%

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

For more information visit:

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

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.

Marketing and Sales Statewide Program of Study



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 (1 Credit)
- Digital Media (1 Credit)

Level 2

- Sports and Entertainment Marketing (.5 Credit)
IBC: Student Social Media Marketing Certification
- Virtual Business (.5 Credit)
IBC: Entrepreneurship/Small Business
- Entrepreneurship I (1 Credit)

Level 3

- Advertising (.5 Credit)
- Social Media Marketing (.5 Credit)

Level 4

- Honors Practicum in Marketing (2 Credits)
- Honors Extended Practicum in Marketing (3 Credits)

Pathway to Completer

Level 1	CTB0001/02 Principles of Business, Marketing, and Finance (1 Credit) CTN0021/22 Digital Media (1 Credit)
Level 2	CTM0040 Sports and Entertainment Marketing (.5 Credit) CTB0060 Virtual Business (.5 Credit)
	CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTM0010 Advertising (.5 Credit) CTM0050 Social Media Marketing (.5 Credit)
Level 4	CTM0081/82 Honors Practicum in Marketing (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Marketing and Sales Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

TEACHING AND TRAINING



FOR ADDITIONAL INFORMATION ON THE EDUCATION AND TRAINING 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.



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.

Aligned Advanced Academic Courses

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

- 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

Expanded Learning Opportunities

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

Aligned Industry-Based Certifications

- Educational Aide I

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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



Successful completion of the Teaching and Training Program of Study will fulfill requirements of the Public Service endorsement.



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 IBCs/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%

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



For more information visit:

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

Education and Training Career Cluster 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.

Teaching and Training Statewide Program of Study



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 Human Services (1 Credit)

Level 2

- Human Growth and Development (1 Credit)
- Child Development (1 Credit)

Level 3

- Instructional Practices (2 Credits)
IBC: Educational Aide I

Level 4

- Honors Practicum in Education and Training (2 Credits)
- Honors Extended Practicum in Education and Training (3 Credits)

Pathway to Completer

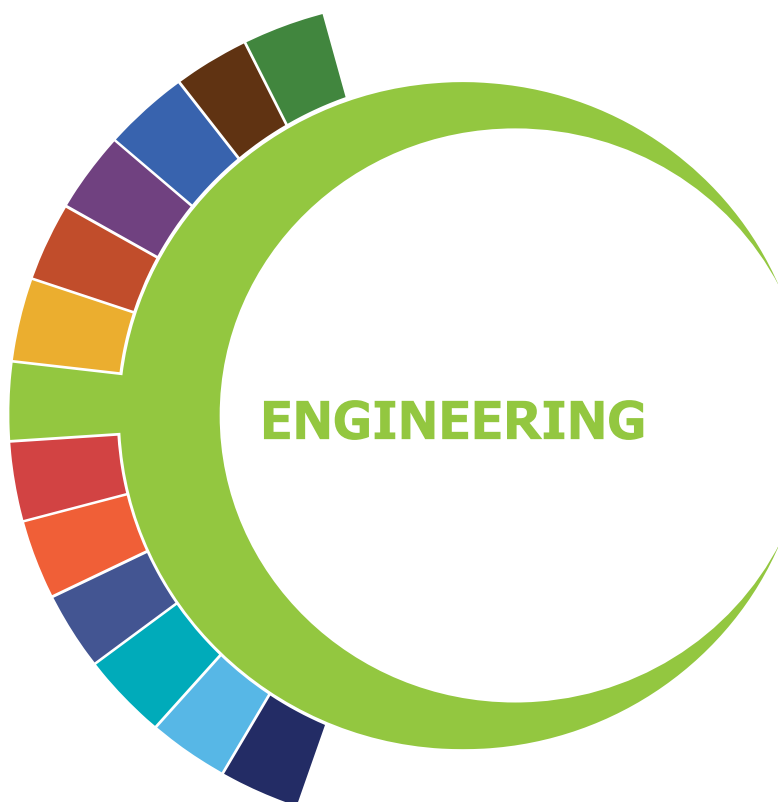
Level 1	CTU0900/01/02 Principles of Human Services (1 Credit)
Level 2	CTE0001/02 Human Growth and Development (1 Credit)
	CTU0030/31/32 Child Development (1 Credit)
Level 3	CTE0011/12 Instructional Practices (2 Credits)
Level 4	CTE0021/22 Honors Practicum in Education and Training (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Teaching and Training Program of Study will fulfill requirements of the Public Service endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



**CIVIL
ENGINEERING**

**DRONE (UNMANNED
VEHICLE)**

**ELECTRICAL
ENGINEERING**

**ENGINEERING
FOUNDATIONS**

**MECHANICAL &
AEROSPACE
ENGINEERING**

ENGINEERING

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://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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.



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.

Aligned Advanced Academic Courses

AP or IB	AP Calculus AB	AP Physics 1	AP Physics 2
	AP Calculus BC	AP Statistics	IB Physics SL IB Physics HL
Dual Credit	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.

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Intern at a local infrastructure company and use computer-aided design (CAD) - Shadow a civil engineering professional
Expanded Learning Opportunities	- Tour a construction site - Participate in a CTSO (Career & Technical Education Student Organization) - Join a local engineering association and attend meetings

Aligned Industry-Based Certifications

- Autodesk Associate (Certified User) 3ds MAX
- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Fusion 360
- Autodesk Associate (Certified User) Inventor for Mechanical Design
- Autodesk Associate (Certified User) Revit Architecture



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 IBCs/Licensures

- 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%

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



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

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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.

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.

Civil Engineering Statewide Program of Study



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 (1 Credit)

Level 3

- *Engineering Design and Presentation I (1 Credit)
IBC: Autodesk Certified Professional in Inventor for Mechanical Design
IBC: Autodesk Associate (Certified User) Fusion 360
- Engineering Mathematics (1 Credit)

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

Level 4

- Honors Engineering Design and Presentation II (2 Credits)
- Honors Practicum in Science, Technology, Engineering and Mathematics (2 Credits)
- Honors Extended Practicum in Science, Technology, Engineering and Mathematics (3 Credits)

Other Course Industry-Based Certifications (IBC's)

Autodesk Associate (Certified User) 3ds Max
Autodesk Revit for Architectural Design
Autodesk Associate (Certified User) AutoCAD

Pathway to Completer

Level 1	CTS0911/12 Principles of Applied Engineering (1 Credit) CTP0821/22 Honors Principles of Applied Engineering (1 Credit) (CJH only)
Level 3	CTS0020/21/22 Engineering Design and Presentation (1 Credit) CTS0041/42 Engineering Mathematics (1 Credit)
Level 4	CTS0034/35 Honors Engineering Design and Presentation II (2 Credits) CTP0051/52 Honors Practicum in Science, Technology, Engineering and Mathematics (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Civil Engineering Program of Study will fulfill requirements of the STEM endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

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 CTSO (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 IBCs/Licensures

- 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%

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



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.

Drone (Unmanned Vehicle) Statewide Program of Study



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 2

- Honors Introduction to Unmanned Aerial Vehicles (UAV) (1 Credit)
IBC: FAA Part 107 Remote Drone Pilot
- *Robotics I (1 Credit)

Level 3

- *Robotics II (1 Credit)
- Engineering Science (1 Credit)

Level 4

- Honors Practicum in Manufacturing (2 Credits)
- Honors Extended Practicum in Manufacturing (3 Credits)
- Honors Scientific Research and Design (Honors Aerospace I) (1 Credit)

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

Pathway to Completer

Level 2	CTP0100/01/02 Honors Introduction to Unmanned Aerial Vehicles (UAV) (1 Credit) CTS0060/61/62 *Robotics I (1 Credit) (available at CJH)
Level 3	CTS0070 *Robotics II (1 Credit) SCR0038/39 Engineering Science (1 Credit)
Level 4	SCP0071/72 Honors Scientific Research and Design (Honors Aerospace I) (1 Credit) CTP0111/12 Honors Practicum in Manufacturing (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Drone (Unmanned Vehicle) Program of Study will fulfill requirements of the STEM endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

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
			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

Aligned Industry-Based Certifications

- FANUC Robot Operator 1
- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Fusion 360
- Autodesk Associate (Certified User) Inventor for Mechanical Design
- Autodesk Associate (Certified User) Revit Architecture

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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.



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
- Systems Engineering

Master's, Doctoral, and Professional Degrees

- Electrical and Electronics Engineering
- Bioengineering and Biomedical Engineering

Additional Stackable IBCs/Licensures

- 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%

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



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

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.

Electrical Engineering Statewide Program of Study



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 of 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 (1 Credit)
(Honors option at CJH only 8th grade)

Level 2

- * Robotics I (1 Credit)

Level 3

- *Robotics II (1 Credit)
- *Engineering Design and Presentation I (1 Credit)
IBC: Autodesk Certified Professional in Inventor for Mechanical Design
IBC: Autodesk Associate (Certified User) Fusion 360
- Engineering Math (1 Credit)
- Engineering Science (1 Credit)

Level 4

- Honors Practicum in Science, Technology, Engineering, and Math (2 Credits)
- Honors Extended Practicum in Science, Technology, Engineering, and Math (3 Credits)
IBC: FANUC Robot Operator

Other Course Industry-Based Certifications (IBC's)

Autodesk Certified User Revit
Autodesk Associate (Certified User) AutoCAD

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

Pathway to Completer

Level 1	CTS0911/12 Principles of Applied Engineering (1 Credit)
Level 2	CTS0060/61/62 *Robotics I (1 Credit) (Available at CJH)
Level 3	CTS0070 *Robotics II (1 Credit) CTS0020/21/22 Engineering Design and Presentation (1 Credit) CTS0041/42 Engineering Math (1 Credit) SCR0038/39 Engineering Science (1 Credit)
Level 4	CTP0051/52 Honors Practicum in Science, Technology, Engineering, and Math (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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: *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.

Aligned Advanced Academic Courses

AP or IB	AP Calculus AB AP Computer Science A AP Physics I	AP Physics 2 AP Statistics IB Physics SL	IB Physics HL IB Computer Science SL 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 at an engineering, robotics, or aerospace company - Visit an engineering firm and shadow multiple types of engineers
Expanded Learning Opportunities	- Participate in a CTSO (Career & Technical Education Student Organization) - Join a local engineering association and attend meetings.

Aligned Industry-Based Certificate

- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Fusion 360
- Autodesk Associate (Certified User) Inventor for Mechanical Design
- Autodesk Associate (Certified User) Revit Architecture
- FANUC Robot Operator 1



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/Licensures

- 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%

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](https://www.hebisd.edu/website).

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



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

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.

Engineering Foundations Statewide Program of Study



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 V 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

Level 1

- *Principles of Applied Engineering (Honors option at CJH only 8th grade) (1 Credit)

Level 2

- *Robotics I (1 Credit)

Level 3

- *Robotics II (1 Credit)
- *Engineering Design and Presentation I (1 Credit)
IBC: Autodesk Certified Professional in Inventor for Mechanical Design
IBC: Autodesk Associate (Certified User) Fusion 360
- Engineering Math (1 Credit)
- Engineering Science (1 Credit)

Level 4

- Honors Engineering Design and Presentation II (2 Credits)
- Honors Practicum in Science, Technology, Engineering, and Math (2 Credits)
- Honors Extended Practicum in Science, Technology, Engineering, and Math (3 Credits)
IBC: FANUC Robot Operator 1

Other Course Industry-Based Certifications (IBC's)

Autodesk Revit
Autodesk Associate (Certified User) AutoCAD

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

Pathway to Completer

Level 1	CTS0911/12 *Principles of Applied Engineering (1 Credit)
Level 2	CTS0060/61/62 *Robotics I (1 Credit) (Available at CJH)
Level 3	CTS0070 *Robotics II (1 Credit) CTS0021/22 *Engineering Design and Presentation I (1 Credit) CTS0041/42 Engineering Math (1 Credit) SCR0038/39 Engineering Science (1 Credit)
Level 4	CTS0034/35 Honors Engineering Design and Presentation II (2 Credits) CTP0051/52 Honors Practicum in Science, Technology, Engineering, and Math (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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: **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.

Aligned Advanced Academic Courses

AP or IB	AP Calculus AB AP Calculus BC AP Physics I	AP Physics 2 AP Statistics	IB Physics SL IB Physics 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 at an aviation or aerospace company • Shadow a mechanical engineer to understand design and testing processes • Complete a project to test and evaluate a new product design for a local company
Expanded Learning Opportunities	• Tour an aerospace facility • Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Inventor
- Autodesk Associate (Certified User) Fusion 360 for Mechanical Design
- Autodesk Associate (Certified User) Revit Architecture



Example Postsecondary Opportunities

Apprenticeships

- Mechanical Engineering Technician Apprenticeship

Associate Degrees

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

Bachelor's Degrees

- Aeronautical/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 IBCs/Licensures

- 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
10-Year Growth: 18%

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



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

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).

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.

Mechanical and Aerospace Engineering Statewide Program of Study



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 of 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

Level 1

- *Principles of Applied Engineering (Honors option at CJH only 8th grade) (1 Credit)

Level 3

- *Engineering Design and Presentation I (1 Credit)
IBC: Autodesk Certified Professional in Inventor for Mechanical Design
IBC: Autodesk Associate (Certified User) Fusion 360
- Engineering Math (1 Credit)
- Engineering Science (1 Credit)

Level 4

- Engineering Design and Problem Solving (Honors Aerospace II) (1 Credit)
IBC: Autodesk Associate (Certified User) Auto CAD
- Honors Practicum in Science, Technology, Engineering, and Math (2 Credits)
- Honors Extended Practicum in Science, Technology, Engineering, and Math (3 Credits)

Other Course Industry-Based Certifications (IBC's)

Autodesk Associate (Certified User) Revit

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

Pathway to Completer

Level 1	CTS0911/12 *Principles of Applied Engineering (1 Credit)
Level 3	CTS0020/21/22 *Engineering Design and Presentation I (1 Credit) CTS0041/42 Engineering Math (1 Credit) SCR0038/39 Engineering Science (1 Credit)
Level 4	SCP0073 Engineering Design and Problem Solving (Honors Aerospace II) (1 Credit) CTP0051/52 Honors Practicum in Science, Technology, Engineering, and Math (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

**DIAGNOSTIC &
THERAPEUTIC
SERVICES
*(FIRE ACADEMY)**

**EXERCISE
SCIENCE,
WELLNESS &
RESTORATION**

**NURSING
SCIENCE**



FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.

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.

Aligned Advanced Academic Courses

AP or IB	AP Biology IB Biology SL IB Biology HL	AP Chemistry IB Chemistry SL IB Chemistry 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 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 shadow
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 IBCs/Licensures

- 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%

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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.

Diagnostic and Therapeutic Services Statewide Program of Study



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 (1 Credit)

Level 2

- Medical Terminology (1 Credit)
- Disaster Response (Fire Academy) (1 Credit)

Level 3

- *Anatomy and Physiology (1 Credit)
- Honors Medical Microbiology (1 Credit)
- Health Science Theory (Fire Academy) (1 Credit)
- Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot./Site/PCT) (2 Credits)

IBC: Patient Care Technician

Level 4

- Honors Pathophysiology (1 Credit)
- Honors Pharmacology (1 Credit)
- IBC: Pharmacy Technician
- Honors Practicum in Health Science (Phlebotomy) (2 Credits)
- IBC: Phlebotomy Technician
- Honors Extended Practicum in Health Science (Fire Academy) (3 Credits)
- IBC: Certified EKG Technician
- IBC: Emergency Medical Technician (EMT)

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

Pathway to Completer

Level 1	CTH0011/12 Principles of Health Science (1 Credit)
Level 2	CTH0041/42 Medical Terminology (1 Credit) CTL0030 Disaster Response (Fire Academy) (1 Credit)
Level 3	SCR0051/2 Anatomy and Physiology (1 Credit) SCP0051/52 Honors Anatomy and Physiology (1 Credit)
	CTP0043/45 Honors Medical Microbiology (1 Credit) CTH0061/62 Health Science Theory (Fire Academy) (1 Credit) CTP0025/26 Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot./Site/PCT) (2 Credits)

*An Extended Practicum option is available for qualified students.

...Continued next page

High School Schedules contain 15 available schedule slots per year. Junior High School Schedules contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Aligned Advanced Academic Courses

AP or IB	AP Biology	IB Biology SL IB Biology 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	- 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 IBCs/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%

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



For more information visit:

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

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.

Exercise Science, Wellness, and Restoration Statewide Program of Study



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 (1 Credit)

Level 2

- Lifetime Nutrition and Wellness (.5 Credit)
- Interpersonal Studies (.5 Credit)
- Medical Terminology (1 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Health Science Theory (Fire Academy) (1 Credit)
- Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot./Site/PCT) (2 Credits)
- *Anatomy and Physiology (1 Credit)

Level 4

- Honors Practicum in Health Science (Phlebotomy) (2 Credits)
IBC: Phlebotomy Technician
- Honors Extended Practicum in Health Science (Fire Academy) (3 Credits)
IBC: Emergency Medical Technician

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

Pathway to Completer

Level 1	CTH0011/12 Principles of Health Science (1 Credit)
Level 2	CTU0010 Lifetime Nutrition and Wellness (.5 Credit) CTU0020 Interpersonal Studies (.5 Credit)
	CTH0041/42 Medical Terminology (1 Credit) CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	SCR0051/52 Anatomy and Physiology (1 Credit) SCP0051/52 Honors Anatomy and Physiology (1 Credit)
	CTH0061/62 Health Science Theory (Fire Academy) (1 Credit) Honors Health Science Theory + Honors Health Science Clinical • CTH0021/22 Clinical Rotation (2 Credits) CTP0023/24 Site (2 Credits) • CTP0036/37 PCT (2 Credits)
Level 4	CTP0031/32 Honors Practicum in Health Science (Phlebotomy) (2 Credits)
	CTP0091/92/93 Honors Extended Practicum in Health Science (Fire Academy) (3 Credits)

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Exercise Science, Wellness, and Restoration Program of Study will fulfill requirements of the Public Services endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Aligned Advanced Academic Courses

AP or IB	AP Biology	AP Chemistry
	IB Biology SL	IB Chemistry SL
	IB Biology HL	IB Chemistry 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 with a medical assistant at a community clinic, hospital, or assisted living facility - Conduct informational interviews with nurses in different departments and healthcare settings
Expanded Learning Opportunities	- Volunteer at community clinics, hospitals, assisted living and long-term care facilities - Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- Certified Patient Care Technician (CPCT)
- Phlebotomy Technician



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 IBCs/Licensures

- 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%

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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.

Nursing Science Statewide Program of Study



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

Level 1

- Principles of Health Science (1 Credit)

Level 2

- Medical Terminology (1 Credit)

Level 3

- Health Science Theory (Fire Academy) (1 Credit)
- Honors Health Science Theory + Honors Health Science Clinical (Clinical Rot./Site/PCT) (2 Credits)
IBC: Patient Care Technician
- *Anatomy and Physiology (1 Credit)
- Honors Medical Microbiology (1 Credit)

Level 4

- Honors Pathophysiology (1 Credit)
- Honors Pharmacology (1 Credit)
- Honors Practicum in Health Science (Phlebotomy) (2 Credits)
IBC: Phlebotomy Technician

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

Pathway to Completer

Level 1	CTH0011/12 Principles of Health Science (1 Credit)
Level 2	CTH0041/42 Medical Terminology (1 Credit)
Level 3	SCR0051/52 Anatomy and Physiology (1 Credit) SCP0051/52 Honors Anatomy and Physiology (1 Credit)
	CTH0061/62 Health Science Theory (Fire Academy) (1 Credit) Honors Health Science Theory + Honors Health Science Clinical • CTP0025/26 Clinical Rotation (2 Credits) • CTP0023/24 Site (2 Credits) • CTP0036/37 PCT (2 Credits) CTP0043/44 Honors Medical Microbiology (1 Credit)
Level 4	CTP0045/46 Honors Pathophysiology (1 Credit) CTP0041/42 Pharmacology (1 Credit) CTP0031/32 Honors Practicum in Health Science (Phlebotomy) (2 Credits)

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Nursing Science Program of Study will fulfill requirements of the Public Service endorsement or STEM endorsement if the math and science requirements are met.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

CULINARY ARTS



FOR ADDITIONAL INFORMATION ON THE HOSPITALITY AND TOURISM 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.





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.

Aligned Advanced Academic Courses

AP or IB	AP Chemistry IB Chemistry SL
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 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



Example Postsecondary Opportunities

Associate Degrees

- Culinary Arts
- Baking and Pastry Arts



Bachelor's Degrees

- Hotel/Motel Administration/Management
- Culinary Science

Master's, Doctoral, and Professional Degrees

- Organizational Leadership
- Foodservice Systems Administration/Management

Additional Stackable IBCs/Licensures

- Food Manager License



Example Aligned Occupations

Bakers

Median Wage: \$29,466
Annual Openings: 2,942
10-Year Growth: 26%

Chefs and Head Cooks

Median Wage: \$44,761
Annual Openings: 950
10-Year Growth: 37%

General and Operations Managers

Median Wage: \$83,220
Annual Openings: 25,450
10-Year Growth: 23%

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](https://hebisd.edu).



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



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

For more information visit:

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

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.

Culinary Arts Statewide Program of Study



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 (1 Credit)

Level 2

- Culinary Arts (2 Credits)
- Entrepreneurship I (1 Credit)

Level 4

- Honors Practicum in Culinary Arts (2 Credits)
- Honors Extended Practicum in Culinary Arts (3 Credits)

IBC: ServSafe Manager

Roadmap to Completer

Level 1	CTC0009 Introduction to Culinary Arts (1 Credit)
Level 2	CTC0012/13 Culinary Arts (2 Credits)
	CTM0021/22 Entrepreneurship I (1 Credit)
Level 4	CTC0021/22 Honors Practicum in Culinary Arts (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] <i>.5 Credit = 1 Schedule Slot</i>	2 Semester/Trimester [Home Campus] <i>1 Credit = 2 Schedule Slots</i> May be blocked into one trimester	1 Trimester [BCTEA] <i>.5 Credit = 1 Schedule Slot</i> <i>1 Credit = 2 Schedule Slots</i> May be blocked into one trimester	2 Trimesters [BCTEA] <i>1 Credit = 2 Schedule Slots</i> <i>2 Credits = 4 Schedule Slots</i> May be blocked into one trimester
---	--	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Culinary Arts Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



**COSMETOLOGY
AND PERSONAL
CARE SERVICES**
REGIONAL PROGRAM OF
STUDY

**FAMILY AND
COMMUNITY
SERVICES**

**HEALTH
AND
WELLNESS**

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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.





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.

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

- 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)

Aligned Industry-Based Certifications

- Cosmetology Operator License



Example Postsecondary Opportunities

Apprenticeships

- Apprentice Stylist

Associate Degrees

- Cosmetology Operator
- Esthetics and Skin Care

Additional Stackable IBCs/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%

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

For more information visit:



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

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.

Cosmetology and Personal Care Services Statewide Program of Study



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 2

- Introduction to Cosmetology (1 Credit)
Offered Fall Trimester only. Must be taken in same year (11th grade) as Cosmetology I (Level 3)
- Entrepreneurship I (1 Credit)

Level 3

- Cosmetology I (3 Credits)
Offered Winter and Spring trimesters only. Must be taken in same year (11th grade) as Introduction to Cosmetology (Level 2)

Level 4

- Cosmetology II+ Cosmetology II Lab (3 credits)
IBC: Cosmetology Operator License

Pathway to Completer

Level 2	CTU0060 Introduction to Cosmetology (1 Credit)
	CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTU0071/72 Cosmetology I (2 Credits)
Level 4	CTU0074/75/76 Cosmetology II+ Cosmetology II Lab (3 credits)

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Cosmetology and Personal Care Services Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



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.

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

- Participate in a community health worker apprenticeship at a community health center
- Shadow a social worker in a community non-profit organization to learn about providing social and community services

Expanded Learning Opportunities

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

Aligned Industry-Based Certifications

- Community Health Workers



Example Postsecondary Opportunities

Apprenticeships

- Community Health Worker Apprentice

Associate Degrees

- Social Work
- Human Development and Family Studies

Bachelor's Degrees

- Social Work
- Human Development and Family Studies

Master's, Doctoral, and Professional Degrees

- Mental Health Counseling
- Marriage and Family Therapy

Additional Stackable IBCs/Licensures

- Certified Diabetes Educator



Example Aligned Occupations

Community Health Workers

Median Wage: \$39,520

Annual Openings: 501

10-Year Growth: 25%

Social and Human Service Assistants

Median Wage: \$38,442

Annual Openings: 3,298

10-Year Growth: 21%

Child, Family, and School Social Workers

Median Wage: \$49,398

Annual Openings: 2,342

10-Year Growth: 14%

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

For more information visit:

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



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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).

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.

Family and Community Services Statewide Program of Study



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

Level 1

- Principles of Human Services (1 Credit)
- Professional Communications (.5 Credit)
- Dollars and Sense (.5 Credit)

Level 2

- Human Growth and Development (1 Credit)
- Child Development (1 Credit)
- Lifetime Nutrition and Wellness (.5 Credit)
- Interpersonal Studies (.5 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Family and Community Services (1 Credit)
- Counseling and Mental Health (1 Credit)

Level 4

- Honors Practicum in Human Services (2 Credits)
- Honors Extended Practicum in Human Services (3 Credits)

IBC: Community Health Workers

Pathway to Completer

Level 1	CTV0000 Professional Communications (.5 Credit) CTU0090 Dollars and Sense (.5 Credit)
	CTU0900/01/02 Principles of Human Services (1 Credit)
Level 2	CTU0010 Lifetime Nutrition and Wellness (.5 Credit) CTU0020 Interpersonal Studies (.5 Credit)
	CTU0030/31/32 Child Development (1 Credit)
	CTE0001/02 Human Growth and Development (1 Credit) CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTU0101/02 Family and Community Services (1 Credit)
	CTU0051/52 Counseling and Mental Health (1 Credit)
Level 4	CTU0043/44 Honors Practicum in Human Services (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Family and Community Services Program of Study will fulfill requirements of the Public Services endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



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.

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 dietician in a local hospital or nursing home to learn about tailoring diets to patient needs
- Work part-time as a peer counselor at a community non-profit organization that works with children

Expanded Learning Opportunities

- Intern at a non-profit organization to learn about identifying resources to serve needs of participants
- Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- Community Health Workers



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/Licensures

- 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%

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

For more information visit:

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



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.

Health and Wellness Statewide Program of Study



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

Level 1

- Principles of Human Services (1 Credit)
- Dollars and Sense (.5 Credit)

Level 2

- Human Growth and Development (1 Credit)
- Child Development (1 Credit)
- Lifetime Nutrition and Wellness (.5 Credit)
- Interpersonal Studies (.5 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Family and Community Services (1 Credit)
- Counseling and Mental Health (1 Credit)

Level 4

- Honors Practicum in Human Services (2 Credits)
- Honors Extended Practicum in Human Services (3 Credits)

IBC: Community Health Workers

Pathway to Completer

Level 1	CTU0090 Dollars and Sense (.5 Credit)
	CTU0900/01/02 Principles of Human Services (1 Credit)
Level 2	CTU0010 Lifetime Nutrition and Wellness (.5 Credit) CTU0020 Interpersonal Studies (.5 Credit)
	CTU0030/31/32 Child Development (1 Credit)
	CTE0001/02 Human Growth and Development (1 Credit) CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTU0051/52 Counseling and Mental Health (1 Credit)
	CTU0101/02 Family and Community Services (1 Credit)
Level 4	CTU0043/44 Honors Practicum in Human Services (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Health and Wellness Program of Study will fulfill requirements of the Public Services endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

CYBERSECURITY

**INFORMATION
TECHNOLOGY
SUPPORT AND
SERVICES**

**NETWORKING
SYSTEMS**

**PROGRAMMING &
SOFTWARE
DEVELOPMENT**

WEB DEVELOPMENT



FOR ADDITIONAL INFORMATION ON THE INFORMATION TECHNOLOGY 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.

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.

Aligned Advanced Academic Courses

AP or IB	AP Computer Science A AP Computer Science Principles
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 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

- CodeHS Cybersecurity Level I Certification
- CompTIA A+ Certification
- CompTIA Network+
- CompTIA Security+
- Computer Networking Fundamentals - Job Ready



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/Licensures

- Certified Ethical Hacker (CEH)



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%

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).

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.

Cybersecurity Statewide Program of Study



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) (1 Credit)
- Fundamentals of Computer Science (Euleless Junior High) (1 Credit)
- Principles of Cybersecurity (Hurst Junior High) (1 Credit)

Level 2

- Computer Science I (1 Credit)
- Computer Maintenance (1 Credit)
- AP Computer Science Principles (1 Credit)

Level 3

- Digital Forensics (1 Credit)
- Networking (1 Credit) *IBC: Computer Networking Fundamentals-Job Ready*
- Networking/Networking Lab (2 Credits)
- AP Computer Science A (1 Credit)
- IB Computer Science Standard Level (1 Credit)
- IB Computer Science Higher Level (1 Credit)

Level 4

- Cybersecurity Capstone (1 Credit)
IBC: CodeHS Cybersecurity Level 1 Certification
- Honors Independent Study in Technology Applications (1 Credit)
- Honors Practicum in Information Technology (2 Credits)
IBC: CompTIA A+ Certification
IBC: CompTIA Network+ Certification
IBC: CompTIA Security+ Certification
- Honors Extended Practicum in Information Technology (3 Credits)
- Honors Practicum in Science, Technology, Engineering, and Mathematics (2 Credits)
- Honors Extended Practicum in Science, Technology, Engineering, and Mathematics (3 Credits)

Pathway to Completer

Level 1	CTN9011/12 Principles of Information Technology (1 Credit) TAR0001/02 Fundamentals of Computer Science (1 Credit) CTS0921/22 Principles of Cybersecurity (1 Credit)
Level 2	TAR00035 Computer Science I (1 Credit) CTN0010 Computer Maintenance (1 Credit)
	TAP0001/02 AP Computer Science Principles (1 Credit)

*An Extended Practicum option is available for qualified students.

Roadmap to Completer cont'd next page

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Cybersecurity Program of Study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Cybersecurity

Roadmap to Completer cont'd

Level 3	CTN0060 Digital Forensics (1 Credit) CTN0030 Networking (1 Credit) CTN0033/34 Networking/Networking Lab (2 Credits)
	TAP0021/22 AP Computer Science A (1 Credit) TAI0021/22 IB Computer Science Standard Level (1 Credit) TAI0031/32 IB Computer Science Higher Level (1 Credit)
Level 4	TAR0051/52 Honors Independent Study in Technology Applications (1 Credit)
	CTS0081/82 Cybersecurity Capstone (1 Credit) CTN0071/72 Honors Practicum in Information Technology (2 Credits)* CTP0051/52 Honors Practicum in Science, Technology, Engineering, and Mathematics (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Cybersecurity Program of Study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Aligned Advanced Academic Courses

AP or IB	AP Computer Science A AP Computer Science Principles	IB Computer Science SL 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 at a local IT company to develop skills in computer system maintenance and setting up computer equipment - Shadow a database administrator or computer software or hardware engineer to learn about their day-to-day responsibilities
Expanded Learning Opportunities	- Participate in a CTSO (Career & Technical Education Student Organization) - Subscribe to industry journals

Aligned Industry-Based Certifications

- Computer Repair Technology - Job Ready
- CompTIA A+ Certification
- CompTIA Networking+



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/Licensures

- 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%

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

For more information visit:

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

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.

Information Technology Support and Services Statewide Program of Study



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

Level 1

- **Principles of Information Technology (1 Credit)**
(Hurst Junior High)
- **Fundamentals of Computer Science (1 Credit)**
(Euleless Junior High)

Level 2

- Computer Maintenance (1 Credit)
IBC: Computer Repair Technician - Job Ready
- Entrepreneurship I (1 Credit)

Level 4

- Honors Independent Study in Technology Applications (1 Credit)
- Computer Technician Practicum (2 Credits)
IBC: CompTIA A+ Certification
IBC: CompTIA Network+ Certification
- Honors Practicum in Information Technology (2 Credits)
- Honors Extended Practicum in Information Technology (3 Credits)

Pathway to Completer

Level 1	CTN0094/95 Principles of Information Technology (1 Credit) TAR0001/02 Fundamentals of Computer Science (1 Credit)
Level 2	CTN0010 Computer Maintenance (1 Credit) CTM0021/22 Entrepreneurship 1 (1 Credit)
Level 4	CTN0041/42 Computer Technician Practicum (2 Credits) CTN0071/72 Honors Practicum in Information Technology (2 Credits)*
	TAR0051/52 Honors Independent Study in Technology Applications (1 Credit)

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Information Technology Support and Services Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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: **Networking Systems**

The Networking Systems Program of Study focuses on occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study includes analysis of data processing challenges to implementing and improving computer 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

- Intern at a local education, public service, or technology organization to develop skills in installing hardware and software
- Interview a network administrator to learn about their career path and what credentials they earned to be successful in their role

Expanded Learning Opportunities

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

Aligned Industry-Based Certifications

- CompTIA A+ Certification
- CompTIA Networking+
- Computer Networking Fundamentals - Job Ready



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/Licensures

- 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%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.
For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/programs-of-study-additional-resources>

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.

Networking Systems Statewide Program of Study



The Networking Systems program of study focuses on occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study includes analysis of data processing challenges to implementing and improving computer systems.

Secondary Courses for High School Credit

Level 1

- Principles of Information Technology (1 Credit)
(Hurst Junior High)
- Fundamentals of Computer Science (1 Credit)
(Eules Junior High)

Level 2

- Computer Science I (1 Credit)
- Computer Maintenance (1 Credit)
- AP Computer Science Principles (1 Credit)
- Entrepreneurship (1 Credit)

Level 3

- Networking (1 Credit) *IBC: Computer Networking Fundamentals - Job Ready*
- Networking + Networking Lab (2 Credits)

Level 4

- Honors Independent Study in Technology Applications (1 credit)
- Honors Practicum in Information Technology (2 Credits)
IBC: CompTIA A+ Certification
IBC: CompTIA Network+ Certification
- Honors Extended Practicum in Information Technology (3 Credits)

Pathway to Completer

Level 1	CTN0094/95 Principles of Information Technology (1 Credit) TAR0011/12 Fundamentals of Computer Science (1 Credit)
Level 2	TAP0001/02 AP Computer Science Principles (1 Credit) TAR0003 Computer Science I (1 Credit) CTN0010 Computer Maintenance (1 Credit) CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTN0030 Networking (1 Credit) CTN0033/34 Networking + Networking Lab (2 Credits)
Level 4	TAR0051/52 Honors Independent Study in Technology Applications (1 credit) CTN0071/72 Honors Practicum in Information Technology (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Networking Systems Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



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.

Aligned Advanced Academic Courses

AP or IB	AP Calculus AB AP Statistics IB Mathematics Applications and Interpretation SL
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 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 CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- Certified Entry-Level Python Programmer (PCEP)
- CodeHS Python Level 1 Certification
- Certified User: Programmer
- 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 IBCs/Licensures

- 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%

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

For more information visit:

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



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.

Programming and Software Development Statewide Program of Study



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 (1 Credit)
(Hurst Junior High)
- Fundamentals of Computer Science (1 Credit)
(Eulless Junior High)

IBC: CodeHS Python Level I Certification

Level 2

- Computer Science 1 (1 Credit)
IBC: Certified Entry-Level Python Programmer (PCEP)
- AP Computer Science Principles (1 Credit)
- Entrepreneurship (1 Credit)

Level 3

- Computer Science II (1 Credit)
- AP Computer Science A (1 Credit)

- IB Computer Science Standard Level (1 Credit)
- IB Computer Science Higher Level (1 Credit)

Level 4

- Honors Independent Study in Technology Applications (1 Credit)
- Honors Practicum in Information Technology (2 Credits)
IBC: CompTIA A+ Certification
- Honors Extended Practicum in Information Technology (3 Credits)
- Honors Practicum in Science, Technology, Engineering, and Mathematics (2 Credits)
- Honors Extended Practicum in Science, Technology, Engineering, and Mathematics (3 Credits)

Other Course Industry-Based Certifications (IBC's)

Certified User: Programmer

Pathway to Completer

Level 1	CTN0094/95 Principles of Information Technology (1 Credit) TAR0001/02 Fundamentals of Computer Science (1 Credit)
Level 2	TAP0001/02 AP Computer Science Principles (1 Credit)
	TAR0003 Computer Science I (1 Credit) CTM0021/22 Entrepreneurship (1 Credit)

*An Extended Practicum option is available for qualified students.

continued to next page...

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Programming and Software Development

Roadmap to Completer ...continued

Level 3	TAI0021/22 IB Computer Science Standard Level (1 Credit) TAI0031/32 IB Computer Science Higher Level (1 Credit)
	TAR0006 Computer Science II (1 Credit) TAP0021/22 AP Computer Science A (1 Credit)
Level 4	TAR0051/52 Honors Independent Study in Technology Applications (1 Credit)
	CTN0073/74 Honors Practicum in Information Technology (2 Credits)* CTP0053/54 Honors Practicum in Science, Technology, Engineering, and Mathematics (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

Aligned Advanced Academic Courses

AP or IB	AP Computer Science A AP Computer Science Principles	IB Computer Science SL 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 at a nonprofit or small business to support developing or updating their website and digital media - Interview a web designer to learn about how they developed their digital design skills and what factors they consider when developing a website.
Expanded Learning Opportunities	- Create a website - Participate in a CTSO (Career & Technical Education Student Organization)

Aligned Industry-Based Certifications

- CodeHS Python Level I Certification

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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/Licensures

- 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%

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

For more information visit:

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

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.

Web Development Statewide Program of Study



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 (1 Credit)
(Hurst Junior High)
 - Fundamentals of Computer Science (1 Credit)
(Eulless Junior High)
- IBC: CodeHS Python Level 1 Certification*

Level 2

- Computer Science I (1 Credit)
- Entrepreneurship (1 Credit)

Level 3

- Web Design (1 Credit)

Level 4

- Honors Independent Study in Technology Applications (1 Credit)
- Honors Practicum in Information Technology (2 Credits)
- Honors Extended Practicum in Information Technology (3 Credits)

Pathway to Completer

Level 1	CTN0094/95 Principles of Information Technology (1 Credit) TAR0001/02 Fundamentals of Computer Science (1 Credit)
Level 2	TAR0003 Computer Science I (1 Credit)
	CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	TAR0011/12 Web Design (1 Credit)
Level 4	CTN0071/72 Honors Practicum in Information Technology (2 Credits)*
	TAR0051/52 Honors Independent Study in Technology Applications (1 Credit)

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- 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.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



**LAW
ENFORCEMENT**

LEGAL STUDIES

FOR ADDITIONAL INFORMATION ON THE INFORMATION TECHNOLOGY 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.

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.

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 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



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 IBCs/Licensures

- 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%

Law Enforcement

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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.

Law Enforcement Statewide Program of Study



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 (1 Credit)

Level 2

- Law Enforcement I (Rotation/911 Dispatch) (1 Credit)

Level 3

- Law Enforcement II (1 Credit)
- Counseling and Mental Health (1 Credit)

Level 4

- Forensic Science (1 Credit)
- Honors Practicum in Law, Public Safety, Corrections, and Security (2 Credits)
- Honors Extended Practicum in Law, Public Safety, Corrections, and Security (3 Credits)

IBC: IAED Emergency Telecommunicator

Pathway to Completer

Level 1	CTL0011/12 Principles of Law, Public Safety, Corrections, and Security (1 Credit)
Level 2	CTL0033 Law Enforcement I Rotation (1 Credit) CTL0036 Law Enforcement I 911 Dispatch (1 Credit)
Level 3	CTL0043 Law Enforcement II (1 Credit) CTU0051/52 Counseling and Mental Health (1 Credit)
Level 4	SCR0061/62 Forensic Science (1 Credit) CTL0051/52 Honors Practicum in Law, Public Safety, Corrections, and Security (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	---	---

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Law Enforcement Program of Study will fulfill requirements of the Public Services endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

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.

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

- Administrative Assisting
- General Management



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 IBCs/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%

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).

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

For more information visit:

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



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.

Legal Studies Statewide Program of Study



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

Level 1

- Principles of Law, Public Safety, Corrections, and Security (1 Credit)

Level 2

- Court Systems and Practices (1 Credit)

Level 3

- Advanced Legal Skills and Professions (1 Credit)

IBC: General Management

IBC: Administrative Assisting

Level 4

- Forensic Science (1 Credit)
- Honors Practicum in Law, Public Safety, Corrections, and Security (2 Credits)
- Honors Extended Practicum in Law, Public Safety, Corrections, and Security (3 Credits)

Pathway to Completer

Level 1	CTL0011/12 Principles of Law, Public Safety, Corrections, and Security (1 Credit)
Level 2	CTL0021/22 Court Systems and Practices (1 Credit)
Level 3	CTL0060 Advanced Legal Skills and Professions (1 Credit)
Level 4	SCR0061/62 Forensic Science (1 Credit) CTL0051/52 Honors Practicum in Law, Public Safety, Corrections, and Security (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot

1 credit = 2 slots

2 credits = 4 slots

3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Legal Studies Program of Study will fulfill requirements of the Public Services endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

**ROBOTICS &
AUTOMATION
TECHNOLOGY**

WELDING



MANUFACTURING

FOR ADDITIONAL INFORMATION ON THE MANUFACTURING 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.

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.

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 robotics technician working at manufacturing plant
- Shadow a PLC programmer

Expanded Learning Opportunities

- Tour a manufacturing facility
- Participate in a CTSO (Career & Technical Education Student Organization)
- Build a robot and participate in a robotics competition

Aligned Industry-Based Certifications

- C-101 Certified Industry 4.0 Associate - Basic 1
- FANUC Robot Operator I Operations
- Certified Manufacturing Associate



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%

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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](https://hebisd.edu).



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.

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



For more information visit:

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

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.

Robotics and Automation Technology Statewide Program of Study



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

Level 1

- Principles of Applied Engineering
(Honors option at CJH only 8th Grade) (1 Credit)

Level 2

- *Robotics I (1 Credit)
IBC: C-101 Certified Industry 4.0 Associate - Basic Operations

Level 3

- *Engineering Design and Presentation I (1 Credit)
- *Robotics II (1 Credit)
IBC: Certified Manufacturing Associate

Level 4

- Honors Practicum in Manufacturing (2 Credits)
- Honors Extended Practicum in Manufacturing (3 Credits)
IBC: FANUC Robot Operator I

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

Pathway to Completer

Level 1	CTS0911/12 Principles of Applied Engineering (1 Credit)
Level 2	CTS0060/61/62 Robotics I (1 Credit) (Available at CJH)
Level 3	CTS0020/21/22 Engineering Design and Presentation I (1 Credit) CTS0070 Robotics II (1 Credit)
Level 4	CTS0011/12 Honors Practicum in Manufacturing (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Robotics and Automation Program of Study will fulfill requirements of the STEM endorsement if the math and science requirements are met or the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.



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.

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 Completer 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 D9.1 Sheet Metal Welding
- AWS D1.1 Structural Steel



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 Aligned 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%

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

For more information visit:

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



Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



Successful completion of the Welding Program of Study will fulfill requirements of the Business and Industry endorsement.

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.

Welding Statewide Program of Study



The Welding Program of Study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn 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 (1 Credit)

Level 2

- Welding I (2 Credits)
IBC: AWS D1.1 Structural Steel
- Entrepreneurship I (1 Credit)

Level 3

- Welding II (2 Credits)
- Welding II with Lab (3 Credits)
IBC: AWS D9.1 Sheet Metal Welding
IBC: API 1104 Welding Pipelines and Related Facilities

Level 4

- Honors Practicum in Manufacturing (2 Credits)
- Honors Extended Practicum in Manufacturing (3 Credits)

Pathway to Completer

Level 1	CTU011/13/14 Introduction to Welding (1 Credit)
Level 2	CTU011/12 Welding I (2 Credits) CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTU0021/22 Welding II (2 Credits) CTU0026 Welding II with Lab (1 Credit)
Level 4	CTP0011/12 Honors Practicum in Manufacturing (2 Credits)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.

0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study.
- CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Welding Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

AUTOMOTIVE



FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION, AND LOGISTICS 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.

CCMR Credit: CTE Completer plus earned IBC (Industry-Based Certification) in aligned program of study.



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.

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

Non-Discrimination Statement: Hurst-Euleless-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@hebisd.edu, 817-283-4461.

NOTE: A full version of this statement is available in both English and Spanish on the [HEB ISD website](#).



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 IBCs/Licensures

- 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%

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



For more information visit:

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

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.

Automotive and Collision Repair Statewide Program of Study



The Automotive and Collision Repair 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 2

- Automotive Basics (1 Credit)
- Entrepreneurship I (1 Credit)

Level 3

- Automotive Technology I: Maintenance and Light Repair (2 Credits)
IBC: ASE Entry Level Automobile Brakes (BR)
IBC: ASE Entry Level Automobile Engine Repair (ER)
IBC: ASE Entry Level Automobile Manual Drive Train and Axles (MD)
IBC: ASE Entry Level Automobile Suspension and Steering (SS)

Level 4

- Automotive Technology II: Automotive Service (2 Credits)
IBC: ASE Entry Level Electronic/Electrical Systems (EE)
IBC: ASE Entry Level Automobile Maintenance and Light Repair (MR)
- Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory (1 Credit)
- Honors Practicum in Transportation Systems (2 Credits)
- Honors Extended Practicum in Transportation Systems (3 Credits)

Pathway to Completer

Level 2	CTT0010 Automotive Basics (1 Credit)
	CTM0021/22 Entrepreneurship I (1 Credit)
Level 3	CTT0011/12 Automotive Technology I: Maintenance and Light Repair (2 Credits)
Level 4	CTT0021/22 Automotive Technology II: Automotive Service (2 Credits) CTT0051/52 Honors Practicum in Transportation Systems (2 Credits)
	CTT0023 Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory (1 Credit)*

*An Extended Practicum option is available for qualified students.

High School Schedules contain 15 available schedule slots per year. **Junior High School Schedules** contain 14 available schedule slots per year.
0.5 Credit = 1 slot 1 credit = 2 slots 2 credits = 4 slots 3 credits = 6 slots (BCTEA-2 slots per trimester)

1 Semester/Trimester [Home Campus] .5 Credit = 1 Schedule Slot	2 Semester/Trimester [Home Campus] 1 Credit = 2 Schedule Slots May be blocked into one trimester	1 Trimester [BCTEA] .5 Credit = 1 Schedule Slot 1 Credit = 2 Schedule Slots May be blocked into one trimester	2 Trimesters [BCTEA] 1 Credit = 2 Schedule Slots 2 Credits = 4 Schedule Slots May be blocked into one trimester
--	---	--	--

- A Completer is a student who completes three or more courses for four or more credits with one course from Level 3 or 4 within a Program of Study. CCMR Credit = CTE Completer + earned IBC (Industry Based Certification) in an aligned Program of Study.
- Students without their own transportation may not be able to participate in a practicum course.
- Successful completion of the Automotive Program of Study will fulfill requirements of the Business and Industry endorsement.
- Please refer to the Academic Planning Guide course descriptions for required course prerequisites.

Student Industry-Based Certifications

2024-2025*

Certification Name	Total
CareerSafe/Cyber Safety Certification	1450
CareerSafe/Employability Skills Certification	2018
Architecture & Construction	
Autodesk Revit Certification	17
Arts, AV Technology & Communications	
Adobe Animate Certification	15
Adobe 3ds MAX Certification	22
Adobe Illustrator Certification	3
Adobe Photoshop Certification	83
Adobe Premiere Pro Certification	17
Unity Certified User: Programmer	9
Unity Certified User: VR Developer	2
Business, Marketing, & Finance	
Entrepreneurship & Small Business	106
(MOS) Excel/PowerPoint/Word Certification	956
(MOS) Word Expert Certification (Word 2019)	101
STUKENT Social Media Marketing Certification	86
Education & Training	
Educational Aide I Certification	12
Engineering	
Autodesk AutoCAD Certification	2
Autodesk Fusion 360 Certification	14
Autodesk Inventor Certification	69
FAA Part 107 Remote Drone Pilot License	19
Health Science	
AHA BLS Certification	104
AHA Heartsaver CPR & AED/First Aid Certification	392
Certified EKG Technician	29
Emergency Medical Technician (EMT) - Basic	11
STOP THE BLEED	55
Patient Care Technician (CPCT) Certification	15
Pharmacy Technician (CPHT) Certification	3
Phlebotomy (CPT) Certification	7
Hospitality & Tourism	
Food Handler Certification (Texas & Allergen)	118
S/P2 Safety Certification - Culinary	66
ServSafe Manager	9

Certification Name	Total
CareerSafe (StartSafe)/OSHA Certification	698
EVERFI Certifications (CCR/FINC/SEL/WELLNESS)	1509
Human Services	
Barbicide Certification - Cosmetology	55
Community Health Workers	17
Food Handler Certification (Texas & Allergen)	913
Texas Cosmetology Operator License (TDLR)	16
Information Technology	
Certified Entry-Level Python Programmer (PCEP)	5
CodeHS Python Level 1 Certification	21
Cisco - Cybersecurity Essentials/Intro to Cybersecurity	83
Cisco - LPI Linux Essentials PD Certificate (PDC)	27
CompTIA Network+ Certification	1
CompTIA Security+ Certification	1
Computer Networking Fundamentals - Job Ready	3
TestOut - PC/Security Pro	9
Law & Public Service	
AHA Heartsaver CPR & AED/First Aid Certification	66
Digital Forensics Basics Certification	166
General Management	21
Impact Dispatching - Introduction to NCIC	12
Nat Fire Association Public Safety Drone Certification	11
Manufacturing	
AWS D1.1 Structural Steel Welding	32
AWS D9.1 Sheet Metal Welding	20
C-101 Certified Industry 4.0 Assoc - Basic Operations	168
C-103 Certified Industry 4.0 Assoc - Robot Systems	1
FANUC Robot Operator 1 Certification	2
S/P2 Safety Certification - Welding	91
Transportation, Distribution & Logistics	
Automotive Service Excellence (ASE) Entry-Level Certification	
ASE - Brakes (BR)	8
ASE - Electrical/Electronic (EE)	2
ASE - Engine Repair (ER)	6
ASE - Maintenance Light Repair (MR)	6
ASE - Suspension & Steering (SS)	7
S/P2 Lifting It Right Certification	171
S/P2 Safety Certification - Automotive	584
Total Certifications	10542

****Opportunities for Student Industry-Based Certifications are subject to change due to industry standards.**

Hurst-Euleess-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. Further nondiscrimination information can be found at <https://www.hebisd.edu/departments/career-technical-education/career-technical-education>.

ENGLISH LANGUAGE ARTS

ENGLISH

ENGLISH 7 (ENG 7 03200520)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

Seventh grade English consists of the following integrated subject areas: composition, language, reading, speaking, and listening skills. Emphasis is on the study of language and composition, both oral and written. Students also work to develop study, spelling, and vocabulary skills. *An AdvAc CLASS IS AVAILABLE FOR QUALIFIED STUDENTS PER HEB ISD SELECTION PROCESS.*

GT ENGLISH 7 (GT ENG 7 03223000)

Prerequisite:	Previous enrollment in GT or HEB ISD Placement Process	
Grade Level:	7	Semesters: 2

This course, which is the English course for identified gifted students, provides an advanced curriculum and differentiated learning experiences consistent with the characteristics of the gifted learner. Emphasis is on higher-level thinking processes including analysis, creative synthesis, and evaluation. There is also emphasis on independent and guided research, analytical and critical thinking, creative synthesis and written/oral expression related to interdisciplinary studies. Students in this course will address the fundamentals of English grammar, advanced vocabulary development, and forms of writing in an integrated approach, with opportunities for critical analysis, creative synthesis, problem solving, and evaluation.

ENGLISH 8 (ENG 8 03200530)

Prerequisite:	None	
Grade Level:	8	Semesters: 2

Eighth grade English continues the integrated approach to the development of composition, language, literature, reading, speaking, and listening skills. Composition, language, and vocabulary skills receive the major emphasis. Composition includes writing various kinds of sentences, paragraphs, and reports. Students work to improve study, spelling, and reading skills. *An AdvAc CLASS IS AVAILABLE FOR QUALIFIED STUDENTS PER HEB ISD SELECTION PROCESS.*

GT ENGLISH 8 (GT ENG 8 03223100)

Prerequisite:	Previous enrollment in GT or HEB Placement Process	
Grade Level:	8	Semesters: 2

This course is a continuation of GT English 7, and provides an advanced curriculum and differentiated learning experiences consistent with the characteristics of the gifted learner. Emphasis is on higher-level thinking processes including analysis, creative synthesis, and evaluation. Advanced levels of literature related to interdisciplinary studies form the basis of the curriculum, which addresses advanced vocabulary development, writing skills, independent and guided research, and understanding of literary forms and expression.

ENGLISH AS A SECOND LANGUAGE (ESL 7-8 03200400-500)

Prerequisite:	Identified as Limited English Proficient	
Grade Level:	7-8	Semesters: 2

This course provides instruction to the students who are speakers of languages other than English so that they may learn to communicate in English. The course includes listening activities to enable students to increase accuracy in comprehension, speaking activities to allow students to learn to express themselves, and reading and writing activities proceeding from the simple to the more complex. Integrated within these four skill areas are activities that teach American cultural patterns.

READING

READING 7 (RDG 7 03273420)

Prerequisite:	District criteria	
Grade Level:	7	Semesters: 2

This course is designed for the student who needs to improve reading skills and to acquire more sophisticated reading skills required for content-area reading. Emphasis is on advanced vocabulary development, independent word analysis, and expository (non-fiction) reading, as well as fiction and pleasure reading. **EXEMPTION FROM THIS CLASS IS BASED ON DISTRICT CRITERIA.**

READING 8 (RDG 8 03273430)

Prerequisite:	District criteria	
Grade Level:	8	Semesters: 2

This course is designed for the student needs to improve reading skills and to acquire more sophisticated reading skills required for content-area reading. Emphasis is on advanced vocabulary development, independent word analysis, and expository (non-fiction) reading, as well as fiction and pleasure reading. **EXEMPTION FROM THIS CLASS IS BASED ON DISTRICT CRITERIA.**

CREATIVE WRITING, READING, AND PERFORMANCE (03273420, 03273430)

Prerequisite:	None	
Grade Level:	7-8	Semesters: 2

This course is a blend of reading, creative writing, and performing. Students will have the opportunity to write creatively, to perform readers' theatre and to perform humorous and dramatic interpretation. In addition, students will be able to read and discuss engaging pieces of literature.

LEXIA LITERACY 8 (03273430)

Prerequisite:	District criteria	
Grade Level:	8	Semesters: 2

Lexia Power-Up program is a computer-based program that presents material several grade levels below and above a student's enrolled grade level. Students begin with a placement test so they receive instruction in Word Reading, Grammar, and Comprehension based on their individual skill levels. Lexia/Power Up is a hybrid program, meaning a direct piece from an instructor is part of the delivery. The computer portion is only part of the class time, with the other time used practicing oral fluency, teaching small groups, and reading and discussing articles and other selections. **EXEMPTION FROM THIS CLASS IS BASED ON DISTRICT CRITERIA.**

SPEECH

SPEECH 8 (SPEECH 8 03243630)

Prerequisite:	None	
Grade Level:	8	Semesters: 1

This course serves as an introduction and overview of communication processes. Emphasis is on interpersonal communication, basic communication process, listening skills, group discussion, speech preparation and delivery, oral interpretation, and evaluation of communication skills.

PROFESSIONAL COMMUNICATION (PROFCOMM 13009900)

Prerequisite:	None	Credit: ½	GPA: Tier I, 4.0
Grade Level:	8	Semesters: 1	

Just about every field in today's job market uses communication and technology. This course will help students develop the effective communication skills necessary for successful participation in professional and social life. Professional Communication blends written, oral, and graphic communication in a career-based environment. The jobs of tomorrow will need students who are comfortable with technology, and are creative and effective communicators. The great news is that by the end of this course the learner will be comfortable, efficient, and poised for success when given the opportunity to speak in public. ***This course meets the speech requirement for high school graduation and counts for high school credit.***

MATH

MATH 7 (MATH 7 03103000)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

This course extends mathematical operations to all rational numbers along with ratios and percents, including percent increase or decrease. Algebraic thinking centers on constant rates of change and the relationship to slope. Work with equations and inequalities moves from single-step solutions to two-step. Geometric content includes similarity, volume, and area of a number of shapes and solids. Statistical concepts include bar graphs, circle graphs, dot plots, and box plots (both single and comparative). Probability is introduced as students make predictions and calculate experimental and theoretical probabilities of simple and compound events, including complements. Financial literacy elements focus on sales tax, interest rates, and budgets.

MATH 7 AdvAc (MATH 7 03103100)

Prerequisite:	HEB Placement Process	
Grade:	7	Semesters: 2

This course includes the content of Math 7 and Math 8 (as described above and below) within a single year.

STAAR MATH 7 (STAAR MATH 7 4100007)

Prerequisite:	HEB Placement Process	
Grade Level:	7	Semesters: 1-2

This elective course provides additional remedial intervention of state math objectives. It will reinforce the instruction received in the student's current math class. Students will be identified through district and/or state assessment. **EXEMPTION FROM THIS CLASS IS BASED ON DISTRICT CRITERIA.**

MATH 8 (MATH 8 03103100)

Prerequisite:	None	
Grade Level:	8	Semesters: 2

This course extends the algebraic thinking from previous grades to include an understanding of functional relationships, proportional and non-proportional relationships, and interpretations of slope and y-intercept. Work with equations and inequalities will now be multi-step and more complex. Work with number systems expands to include irrationals. Geometric content includes volume, surface area, transformations, and the Pythagorean Theorem. Statistical concepts include scatter plots, trend lines, and mean absolute deviation. Financial literacy elements will focus on interest, loans, and investments.

ALGEBRA 1 AdvAc (ALG1 03100500)

Prerequisite:	HEB Placement Process	Credit: 1	GPA: Tier II
Grade Level:	8	Semesters: 2	

The focus of this course is on functional relationships and problem solving in real situations. Students use symbols to represent relationships between quantities; study the meaning, properties and attributes of functions; use linear, quadratic, and exponential functions and equations to represent and model problem situations; and use a variety of methods to solve linear, quadratic, and exponential equations as well as inequalities. They translate among and use algebraic, tabular, and graphical methods to represent linear and quadratic functions and to solve systems of equations. They investigate, describe, and predict the effects of changes on the graphs of linear and quadratic functions. They relate direct variation to linear functions and solve problems involving proportional change.

STAAR MATH 8 (STAAR MATH 8 4100008)

Prerequisite:	HEB Placement Process	
Grade Level:	8	Semesters: 1-2

This elective course provides additional remedial intervention of state math objectives. It will reinforce the instruction received in the student's current math class. Students will be identified through district and/or state assessment. **EXEMPTION FROM THIS CLASS IS BASED ON DISTRICT CRITERIA.**

MISCELLANEOUS

EXPLORATORY (COURSE NUMBERS IN DESCRIPTION)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

The Exploratory course is an elective class that allows a student to rotate into different electives in one class period over the course of a year. Although exploratory electives may vary from campus to campus, offerings within the district include art (EXPLOR-A 85000001), health (EXPLOR-85000002), speech (EXPLOR-S 85000004), and study skills (EXPLOR-SS 85000005).

STUDENT SUCCESS SKILLS (82990002, 83800002)

Prerequisite:	Campus Identification Process	
Grade Level:	7-8	Semesters: 1-2

Students will focus on themselves as individuals to accomplish academic, behavioral and personal goals for success in school and in the future. The course will focus on academic skills such as goal setting, organization, study skills, short versus long-term planning, and time management. In addition, it will focus on the interpersonal skills students need to be successful in the classroom and their future careers such as effective communication, active listening, conflict management, responsibility, problem solving, and team work. The course is designed to help students obtain both the academic and interpersonal skills necessary to succeed in school and employment.

PHYSICAL EDUCATION/HEALTH/ATHLETICS

ATHLETICS (PE 03823000)

Prerequisite:	None	
Grade Level:	7-8	Semesters: 1-2

The following courses are offered as competitive athletic programs. All programs are governed by the rules and regulations of the University Interscholastic League with the exception of gymnastics.

BOYS

Basketball
Cross Country
Football
Gymnastics (\$25 fee)
Track

GIRLS

Basketball
Cross Country
Gymnastics (\$25 fee)
Soccer
Track
Volleyball

*Cheerleading 7-8 is an outside of school activity

PHYSICAL EDUCATION (PE 03823000)

Prerequisite:	None	
Grade Level:	7-8	Semesters: 1-2

This course is designed to enable students to have a broad overview of leisure and lifetime sport activities, individual, dual, and team sports. Emphasis is placed upon promoting wellness, physical fitness, refining motor skills, and developing an awareness of rules. P.E./GYMNASTICS is taught on some campuses and is a beginning gymnastics course designed to introduce basic gymnastic skills. Each apparatus and relevant skills will be introduced with safety being a primary focus. A \$25 fee is required.

OFF-CAMPUS PHYSICAL EDUCATION (PE 03823000)

Prerequisite:	None	
Grade Level:	7-8	Semesters: 1-2

The Off-Campus Physical Education Program allows students in Grades 7-12 to earn credits that meet the district and state physical education requirements. Only those students involved in the activities of DANCE, EQUESTRIAN, FENCING, FIGURE SKATING, GOLF (G7-G8 only), ICE HOCKEY, CERTAIN MARTIAL ARTS, SWIMMING (G7-G8 only), AND WATER POLO will be considered for the OCPE Program. HEB ISD will charge a participation fee for a student to be enrolled in the OCPE Program. Detailed information about the HEB ISD Off-Campus Physical Education Program is available on the HEB ISD Physical Education & Health website.

SCIENCE

SCIENCE 7(SCI703060700)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

This course is interdisciplinary in nature; however, much of the content focus is on organisms and the environment. The curriculum plan is based on the 7th grade Texas Essential Knowledge and Skills (TEKS). Students conduct laboratory and field investigations using scientific processes, critical thinking, problem solving, and science equipment and materials. The content includes such topics as energy flow in living systems, photosynthesis, weathering and erosion, watersheds, biodiversity, ecological succession, genetic variation, adaptations, cells, homeostasis, and body systems. *An AdvAc CLASS IS AVAILABLE FOR QUALIFIED STUDENTS PER HEB ISD SELECTION PROCESS.*

SCIENCE 8 (SCI 8 03060800)

Prerequisite:	None	
Grade Level:	8	Semesters: 2

This course is interdisciplinary in nature; however, much of the content focus is on earth and space science. The curriculum plan is based on the 8th grade Texas Essential Knowledge and Skills (TEKS) along with supporting 6th and 7th grade TEKS. Students conduct laboratory and field investigations using scientific processes, critical thinking, problem solving, and science equipment and materials. The content includes such topics as structure of atoms, chemical reactions, the Periodic Table, balanced and unbalanced forces, Newton's Laws, lunar cycle, characteristics of the universe, plate tectonics, weather patterns, and the interdependence among living systems and the environment. *An AdvAc CLASS IS AVAILABLE FOR QUALIFIED STUDENTS PER HEB ISD SELECTION PROCESS.*

BIOLOGY 8 AdvAc (BIO 03010200)

Prerequisite:	HEB Selection Process	Credit: 1	GPA: Tier II
Grade Level:	8	Semesters: 2	

This course is more rigorous and intended for students who intend to pursue the advanced courses of biology. The content includes topics and activities that are designed to provide the student with a sound fundamental knowledge of high school level biology and to prepare students for advanced biology classes. *RESEARCH PROJECTS ARE REQUIRED.* (Not offered at all campuses).

SOCIAL STUDIES

TEXAS HISTORY AND GEOGRAPHY 7 (TX HIST7 03343000)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

This course is the study of a unique land and diverse people from the prehistoric era to contemporary Texas. The study focuses on a multicultural society which came together in Texas to create first an independent republic and later a great state. Through their study, students develop a reservoir of knowledge about their state and come to a better understanding of their role as Texans in the destiny of the United States.

U.S. HISTORY AND CITIZENSHIP 8 (US HIST803343100)

Prerequisite:	None	
Grade Level:	8	Semesters: 2

This course is a study of the political, cultural, geographical and economic development of the United States from the early colonial period through the Civil War and Reconstruction. The study focuses on significant personalities, issues, and events that have shaped America's destiny. Special emphasis is placed on the study of the democratic ideals that shape the foundation of our American way of life. Students examine issues critical to the preservation of these ideals and come to a better understanding of their role as responsible, participating citizens. *An AdvAc CLASS IS AVAILABLE FOR QUALIFIED STUDENTS PER HEB ISD SELECTION PROCESS.*

VISUAL AND PERFORMING ARTS

ART

ART 7 (ART 03154110)

Prerequisite:	None	
Grade Level:	7	Semesters: 1-2

This is the introductory level course for Visual Art. The content of art, grade 7, includes sketching and drawing, painting, printmaking, clay and sculpture, and mixed-media art. Activities will emphasize the principles and elements of art, the study of art in history, development of skills, and creative expression. The second semester will be an expansion and elaboration of the concepts and materials covered in the first semester. (A fee each semester covers art supplies).

ART 8 (ART 03503002)

Prerequisite:	None	
Grade Level:	8	Semesters: 1-2

The content of art, grade 8, includes graphics, painting, printmaking, sculpture, and crafts. Activities emphasize basic art concepts, technical proficiency, and creative expression. The second semester will be an expansion and elaboration of the concepts and materials covered in the first semester. (A fee each semester covers art supplies).

8th GRADE ART 1 (ART 03500100)

Prerequisite:	None	Credit: .5- 1	GPA- Tier I , 4.0
Grade Level:	8	Semesters:	1- 2

This is a broad course utilizing art fundamentals in areas of two-dimensional and three-dimensional design. Areas covered may include design, drawing, painting, printmaking, ceramics, and sculpture. (A fee each semester covers art supplies) **Completing BOTH semesters of this course meets the fine arts requirement for high school graduation and counts as high school credit.** (Not offered at all campuses)

8th GRADE ART 1 Accelerated (ART 03500100)

Prerequisite:	None	Credit: 1	GPA- Tier I , 4.0
Grade Level:	8	Semesters:	1

This course is an accelerated visual arts course offering high school Art 1 credit for students who successfully meet the rigorous expectations of this course. Expectations for this accelerated course will be to study elements of 2D and 3D art and may include drawing, painting, printmaking, sculpture, and ceramics. Enhanced production and exhibition will be expected. The intent of this course is to prepare art students for Visual Art II-IV. This is a broad course utilizing art fundamentals in areas of two-dimensional and three-dimensional design. Areas covered may include design, drawing, painting, printmaking, ceramics, and sculpture. **This course meets the fine arts requirement for high school graduation and counts as a high school credit.** (Not offered at all campuses)

MUSIC

BAND 7 (BAND 03154101)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

This is the introductory course in band and is open to students in grades 7, 8, and 9. Students must be enrolled for one full semester. Fundamentals of music and basic playing skills are taught. No previous music training is required. Individual practice outside of school hours is expected, and a few outside rehearsals and performances are required. Instruments will be approved by the band director, and rented through the school or a music dealer.

BAND 8 (BAND 03154503)

Prerequisite:	Band 7 or Equivalent	
Grade Level:	8	Semesters: 2

The second year of band continues at a more advanced level of the instruction begun in Band 7. Assignment to a specific class is made by a band director according to the students playing ability as determined by auditions. Individual practice outside school hours is expected, and participation in outside rehearsals and performance is required. A maintenance fee is charged for use of a school instrument.

CHOIR 7 (CH MUS 03154301)

Prerequisite:	None	
Grade Level:	7	Semesters: 2

Music fundamentals and basic singing skills are taught in this introductory choir course. The teacher, according to voice type and level of development, makes assignment to appropriate classes. Individual practice outside school hours is expected, and attendance at outside rehearsals and performances is required. Some expense for a choir uniform may be required.

CHOIR 8 (CH MUS 03154504)

Prerequisite:	None	
Grade Level:	8	Semesters: 2

This course is an extension of Choir 7 with continued emphasis on singing skills and music fundamentals. Individual practice is expected, and attendance at outside rehearsals and performances is required. Some expense for a choir uniform may be required.

BEGINNING STRINGS (ORCH 03154201) *only available at Central JH*

Prerequisite:	None	
Grade Level:	7-8	Semesters: 2

This is an introductory course in string orchestra study and is open to students in grades 7 or 8. Fundamentals of music and basic playing skills are taught. No previous music training is required. Individual practice outside of school hours is expected, and a few outside rehearsals and performances are required as part of the grade for the class. Instruments will be approved by the orchestra director and rented through the school or a music dealer in the HEB area.

INTERMEDIATE STRINGS (ORCH 03154201) *only available at Central JH*

Prerequisite:	Successful period of enrollment in the HEB Elementary Suzuki Strings Program	
Grade Level:	7-8	Semesters: 2

The intermediate class of string orchestra continues at a more advanced level of the instruction begun in the HEB ISD Elementary Suzuki Strings Program. The orchestra director, according to the students' playing ability as determined by auditions and recommendations from the HEB ISD Elementary Suzuki Strings staff, makes assignment to this class. Individual practice outside of school hours is expected, and a few outside rehearsals and performances are required as part of the grade for the class. Students must provide their own violin, viola, or cello. A maintenance fee will be charged should use of a school cello or bass be authorized.

THEATRE

BEGINNING THEATRE I (03154140)

Prerequisite:	None	
Grade Level:	7-8	Semesters: 2

Junior High Theatre I is a basic overview course for students who are interested in beginning level theatre. This course incorporates basic acting, basic lighting, sound, costuming, and theatrical makeup techniques. This is a performance-based class. Some out of school hours, rehearsals, and performances may be required.

BEGINNING THEATRE II (03154240)

Prerequisite:	None	
Grade Level:	8	Semesters: 2

Junior High Theatre II continues the basic overview course for students who are interested in beginning level theatre, but to a higher level. This course incorporates intermediate acting, lighting, sound, costuming, and theatrical makeup techniques. This course may also explore the history and literature of performance styles. This is a performance-based class. Some out of school hours, rehearsals, and performances may be required.

THEATRE I (TH1 03250100) *only available at Bedford JH and Harwood JH*

Prerequisite:	Beginning Theatre I or Teacher Approval	Credit: 1	GPA - Tier I, 4.0
Grade Level:	8	Semesters: 2	

Theatre I is a basic introductory course. It incorporates basic acting techniques, the role of the actor in interpreting dramatic literature, and the historical evolution of performance styles. This is a performance-based class. Some out of school hours, rehearsals, and performances may be required. **Completing BOTH semesters of this course meets the fine arts requirement for high school graduation and counts as a high school credit.**

WORLD LANGUAGES

Communication is at the heart of all human relationships. Given the interdependence of today's global community, it is imperative that the students of HEB ISD be equipped both linguistically and culturally to communicate successfully. It is vital that all students become proficient in at least one language other than English. Children who come from non-English-speaking backgrounds should also have every opportunity to develop further in their Mother Tongue. The study of foreign languages in the 7th and 8th grade combined with the advanced 9th grade language class is a rigorous, fast-paced series of course requiring strong English Language Arts skills. Students must be exempt from 7th grade Reading and meet district criteria for admission into advanced academic courses. Once identified and enrolled, students will be expected to complete the three-year curriculum.

ARABIC 1A (ARABIC I 03110100) *only available at Central JH*

Prerequisite:	None but application must be submitted:	High school credit earned upon successful completion of Arabic 1B
Grade Level:	7	Semesters: 2

Arabic 1A is an introduction to the Middle Eastern and Arabic-speaking world, its language, and its people. The course emphasizes oral proficiency while developing reading, writing, and listening skills and writing in Modern Standard Arabic. The Middle Eastern culture will be explored along with a consistent study of current events in that area of the world. Students will obtain a novice proficiency level. This course will be taught primarily in Arabic. *Students will receive credit for Arabic 1A with passing grades and only after successful completion of Arabic 1B in 8th grade. Semester grades earned in Arabic 1A, 7th grade year, are NOT included in GPA/class rank.*

ARABIC 1B (ARABIC I 03110100) *only available at Central JH*

Prerequisite:	Arabic 1A:	High school credit:	1	GPA: Tier I, 4.0
Grade Level:	8	Semesters:	2	

Arabic 1B is a continuation of the concepts introduced in the Arabic 1A. The course continues to emphasize oral proficiency while developing reading, writing, and listening skills and writing in Modern Standard Arabic. The Middle Eastern culture will be explored along with a consistent study of current events in that area of the world. Students will obtain a novice proficiency level. This course will be taught primarily in Arabic.

Semester grades earned in Arabic 1B, 8th grade year, ARE included in the high school GPA/class rank.

FRENCH 1A (FRENCH A 03413000)

Prerequisite:	HEB Placement Process	High school credit earned upon successful completion of French 1B
Grade Level:	7	Semesters: 2

French 1A is an introduction to the French world, its language, and its people. The course emphasizes oral proficiency while developing reading, writing, and listening skills. The French culture will also be explored. Students will attain a novice proficiency level. This course will be taught primarily in French. *Students will receive credit for French 1A with passing grades and only after successful completion of French 1B in 8th grade. Semester grades earned in French 1A, 7th grade year, are NOT included in GPA/class rank.*

FRENCH 1B (FRENCH 1 03410100)

Prerequisite:	French 1A	High school credit:	1	GPA: Tier I, 4.0
Grade Level:	8	Semesters:	2	

French 1B is a continuation of an extended study of French 1A. The course emphasizes oral proficiency while developing reading, writing, and listening skills. The French culture will also be explored. Students will attain a novice proficiency level. This course will be taught primarily in French. *Upon successful completion of French 1B, the student will receive one high school graduation credit in French 1 (03410100), which will count toward the language requirements. Semester grades earned in French 1B, 8th grade year, ARE included in the high school GPA/class rank.*

MANDARIN CHINESE 1A (CHIN 1A 03493000) only available at Central JH

Prerequisite:	None but application must be submitted	High school credit earned upon successful completion of Mandarin Chinese 1B
Grade Level:	7	Semesters: 2

Mandarin Chinese 1A is an introduction to the East Asian world, its language, and its people. The course emphasizes oral proficiency while developing reading and listening skills and writing in simplified Mandarin. The East Asian culture will be explored along with a consistent study of current events in that area of the world. Students will obtain a novice proficiency level. This course will be taught primarily in Mandarin Chinese. *Students will receive credit for Mandarin Chinese 1A with passing grades and only after successful completion of Mandarin Chinese 1B in 8th grade. Semester grades earned in Mandarin Chinese 1A, 7th grade year, are NOT included in GPA/class rank.*

MANDARIN CHINESE 1B (CHIN 1 03490100) only available at Central JH

Prerequisite:	Chinese 1A	High school credit:	1	GPA: Tier I, 4.0
Grade Level:	8	Semesters:	2	

Mandarin Chinese 1B is a continuation of the concepts introduced to Mandarin Chinese 1A. The course continues to emphasize oral proficiency while developing reading and listening skills and writing in simplified Mandarin. The East Asian culture will be explored along with a consistent study of current events in that area of the world. Students will attain a novice proficiency level. This course will be taught primarily in Mandarin Chinese. *Semester grades earned in Mandarin Chinese 1B, 8th grade year, ARE included in the high school GPA/class rank.*

SPANISH 1A (SPAN A 03443000)

Prerequisite:	HEB Placement Process	High school credit earned upon successful completion of Spanish 1B
Grade Level:	7	Semesters: 2

Spanish 1 is an introduction to the Spanish world, its language, and its people. The course emphasizes oral proficiency while developing reading, writing, and listening skills. The Spanish culture will also be explored. Students will attain a novice proficiency level. This course will be taught primarily in Spanish. *Students will receive credit for Spanish 1A with passing grades and only after successful completion of Spanish 1B in 8th grade. Semester grades earned in Spanish 1A, 7th grade, are NOT included in GPA/class rank.*

SPANISH 1B (SPAN 1 03440100)

Prerequisite:	Spanish 1A	High school credit:	1	GPA: Tier I, 4.0
Grade Level:	8	Semesters:	2	

Spanish 1B is a continuation of an extended study of Spanish 1A. The course emphasizes oral proficiency while developing reading, writing, and listening skills. The Spanish culture will also be explored. Students will attain a novice proficiency level. This course will be taught primarily in Spanish. *Upon successful completion of Spanish 1B, the student will receive high school graduation credit in Spanish 1 (03440100) which count toward the language requirements. Semester grades earned in Spanish 1B, 8th grade, are included in the high school GPA/class rank.*

ACCELERATED SPANISH STUDIES 7 (DISCLANC 03997000)

Prerequisite: Bedford JH or Harwood JH Spanish Immersion Student	High school credit:	1	GPA: Tier II, 5.0
Grade Level:	7	Semesters:	2

Courses in discovering language and cultures will continue the study of Spanish cultures. Students gain the knowledge to understand the historical development, geographical aspects, cultural aspects, and/or linguistic aspects of selected regions or countries. Students will reinforce their study of linguistic concepts. This course will be taught in Spanish. *Semester grades earned in Accelerated Spanish Studies are included in the high school GPA/class rank.*

ACCELERATED SPANISH 2 (SPAN 2 03440200)

Prerequisite: Bedford JH or Harwood JH Spanish Immersion Student, and Accelerated Spanish Studies 7, or Placement test	High school credit:	1	GPA: Tier II, 5.0
Grade Level:	8	Semesters:	2

This course continues developing the skills and competencies introduced in Spanish I. Oral proficiency will be emphasized while students increase their reading and writing competencies. Culturally related activities will be explored. Students will attain a mid to high novice proficiency level. This course will be taught in Spanish. Spanish I credit pass/fail will be added after a student passes accelerated Spanish II. *Semester grades earned in Accelerated Spanish II are included in the high school GPA/class rank.*

SPECIAL EDUCATION COURSE OFFERINGS

Special Note: Special Education placement and individual course selections are determined by an Admission, Review, and Dismissal/Individual Education Plan Committee (ARD/IEP). Placement and course selections are reviewed on an annual basis.

ENGLISH LANGUAGE ARTS (Special Education Courses)

APPLIED ENGLISH 7-8 (ENG7 03200520; ENG8 03200530)

BASIC ENGLISH 7-8 (ENG7 03200520; ENG8 03200530)

Prerequisite: Placement	Diagnostic Evaluation and ARD Committee	
Grade Level:	7-8	Semesters: 2

These English courses offer a modified, general education curriculum that reflects the general education English course based on the needs of the individual student. The course focuses on integrated language arts study in language, writing, literature, and reading, speaking, and listening.

PRACTICAL ENGLISH 7-8 (ENG7 03200520; ENG8 03200530)

Prerequisite Placement	Diagnostic Evaluation and ARD Committee	
Grade Level:	7-8	Semesters: 2

This English class offers a curriculum based on prerequisite skills to the general education English course based on individual needs. The focus is on the functional use of language, writing, and reading, speaking, and listening. Students will practice oral and written uses of language as it applies to practical applications in the student's environment.

PERSONAL ENGLISH 7-8 (ENG7 03200520; ENG8 03200530)

Prerequisite: Placement	Diagnostic Evaluation and ARD Committee	
Grade Level:	7-8	Semesters: 2

This English class offers curriculum based on prerequisite skills to the general education English course based on individual needs. The focus is on students developing skills in the areas of expressive, receptive, written, and/or symbolic representations of language. Attention is given to the ability to communicate within the range of the student's abilities (direct or through assistive devices). Oral, written, and/or symbolic language will be used to express ideas, demands, and needs, and to make inquiries. Attention is given to use of written symbols for communication.

BLENDED ENGLISH 7 (ENG7 03200520)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	7	Semesters: 2

This modified English course consists of the following integrated subject areas: composition, language, literature, reading, speaking, and listening skills. Emphasis is on the study of language and composition, both oral and written. Students also work to develop study, spelling, and vocabulary skills.

BLENDED ENGLISH 8 (ENG8 03200530)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	8	Semesters: 2

This modified English course continues the integrated approach to the development of composition, language, literature, reading, speaking, and listening skills. Composition, language, and vocabulary skills receive the major emphasis. Composition includes writing various kinds of sentences, paragraphs, and reports. Students work to improve study, spelling, and reading skills.

APPLIED READING 7-8 (RDG7 03273420; RDG8 03273430)**BASIC READING 7-8 (RDG7 03273420; RDG8 03273430)**

Prerequisite: Diagnostic Evaluation and ARD Committee Placement	
Grade Level: 7-8	Semesters: 2

These reading courses offer a modified, general education curriculum that reflects the general education reading course based on the needs of the individual student. The course is designed to improve reading skills and to acquire skills for content-area reading. The focus is on vocabulary development, word analysis, expository and fiction reading.

PRACTICAL READING 7-8 (RDG7 03273420; RDG8 03273430)

Prerequisite: Diagnostic Evaluation and ARD Committee Placement	
Grade Level: 7-8	Semesters: 2

This reading course offers a curriculum based on prerequisite skills to reading on grade level based on needs of the individual student. The course focuses on the continued reinforcement of fundamental reading skills and the function of reading in independent living, employability, and in the community.

PERSONAL READING 7-8 (RDG7 03273420; RDG8 03273430)

Prerequisite: Diagnostic Evaluation and ARD Committee Placement	
Grade Level: 7-8	Semesters: 2

This reading course offers a curriculum based on prerequisite skills to reading on grade level based on needs of the individual student. The course focuses on basic reading and pre-reading concepts needed for communication and independence. Attention is given to the ability to use symbolic representation in a functional manner.

BLENDED READING 7-8 (RDG7 03273420; RDG8 03273430)

Prerequisite: ARD Committee Recommendation	
Grade Level: 7-8	Semesters: 2

This modified reading course is designed for the student who needs to improve reading skills and to acquire more sophisticated reading skills required for content-area reading. Emphasis is on vocabulary development, word analysis, and expository reading as well as fiction and pleasure reading.

PHYSICAL EDUCATION/INDIVIDUALIZED INSTRUCTION 7-8 (PE 03823000)

Prerequisite: Diagnostic Evaluation and ARD Committee Placement	
Grade Level: 7-8	Semesters: 2

Physical Education/Individualized Instruction is designed to provide students with basic motor skills essential for movement efficiency. Students will be given the opportunity to participate in leisure and lifetime activities based upon student need, physical strength, vitality, and endurance.

MATHEMATICS (Special Education Courses)

APPLIED MATH 7-8 (MATH7 03103000; MATH8 03103100)

BASIC MATH 7-8 (MATH7 03103000; MATH8 03103100)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

These math courses offer a modified, general education curriculum that reflects the general math course based on the needs of the individual student. The course is designed to reinforce math operations using a variety of practical, real life situations to facilitate the understanding of mathematics.

PRACTICAL MATH 7-8 (MATH7 03103000; MATH8 03103100)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This math course offers a curriculum based on prerequisite skills to the general education math course based on individual needs. The focus is on the functional use of mathematics and basic math operations as needed in real life situations.

PERSONAL MATH 7-8 (MATH7 03103000; MATH8 03103100)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This math course offers a curriculum based on prerequisite skills to the general education math course based on individual needs. The focus is on functional math skills needed for daily living.

BLENDED MATH 7 (MATH7 03103000)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	7	Semesters: 2

This modified course focuses on proportional relationships in areas such as fractions, percent, similarity, scaling, unit costs, measurement, and probability. Through modified study, students will also apply decimal, fraction, and integer operations in problem solving situations; generate and apply geometric formulas; use concrete models to solve equations; and use statistical measures to describe and make inferences from data.

BLENDED MATH 8 (MATH8 03103100)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	8	Semesters: 2

This modified course focuses on using concepts, algorithms, and properties of rational numbers to explore mathematical relationships. Through modified study, students use basic principles of algebra to analyze and represent proportional and non-proportional relationships; connect verbal, numeric, graphic, and symbolic representation of relationships; use probability to describe data and make predictions; and use geometric properties and relationships to model and analyze situations and to solve problems.

SCIENCE (Special Education Courses)

APPLIED SCIENCE 7-8 (SCI7 03060700; SCI8 03060800)

BASIC SCIENCE 7-8 (SCI7 03060700; SCI8 03060800)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

These science courses offer a modified, general education curriculum that reflects the general education science course based on the needs of the individual student. The course is designed to develop students' knowledge of scientific concepts and how scientific concepts impact their lives and the community.

PRACTICAL SCIENCE 7-8 (SCI7 03060700; SCI8 03060800)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This science course offers a curriculum based on prerequisite skills to physics, biology, and chemistry based on individual student needs. The focus is on the studies of science-based concepts related specifically to independent daily living and employment. Attention is given to relating science to home and job practices that foster the understanding of student roles and responsibilities in the care and operation of both home and job. Activities are "hands-on" experiences with an emphasis on cooperative learning strategies.

PERSONAL SCIENCE 7-8 (SCI7 03060700; SCI8 03060800)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This science course offers a curriculum based on prerequisite skills to physics, biology, and chemistry based on individual student needs. The focus is on studies of science-based concepts related specifically to daily living, self-care, hygiene, safety, and first-aid.

BLENDED SCIENCE 7 (SCI7 03060700)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	7	Semesters: 2

This modified science course is based on a curriculum plan incorporating selected state standards from the Texas Essential Knowledge and Skills (TEKS) for both 7th and 8th grades. In this survey course, students conduct laboratory and field investigations using scientific methods, critical thinking, problem solving, and science equipment and materials. The modified content includes such topics as natural science, astronomy, physical and chemical properties, human systems, and earth systems.

BLENDED SCIENCE 8 (SCI8 03060800)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	8	Semesters: 2

This modified study of science includes planning and conducting field and laboratory investigations using scientific methods, analyzing data, critical thinking, scientific problem solving, and using tools of science. The modified course content taken from the Texas Essential Knowledge and Skills (TEKS) includes typical earth science topics such as earth systems, earth dynamics (including astronomy, oceanography and meteorology), and energy theory.

SOCIAL STUDIES (Special Education Courses)

APPLIED U.S. HISTORY 8 (USHIST8 03343100)

BASIC U.S. HISTORY 8 (USHIST8 03343100)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	8	Semesters: 2

These US History courses offer a modified, general education curriculum that reflects the general education history course based on the needs of the individual student. This course focuses on the political, cultural, geographical, and economic development of the United States from the early colonial period through the Civil War and Reconstruction. Special emphasis is placed on the study of democratic ideals.

PRACTICAL SOCIAL STUDIES 7-8 (TXHIST7 03343000; USHIST8 03343100)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This social studies course offers a curriculum based on integrated prerequisite skills to history, government, geography, and economics based on individual student needs. The focus is on understanding the US governmental systems, the monetary system, and citizenship in the school, local community, state, and national community.

PERSONAL SOCIAL STUDIES 7-8 (TXHIST7 03343000; USHIST8 03343100)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This social studies course offers a curriculum based on integrated prerequisite skills in history, government, geography, and economics based on individual student needs. The focus is on basic concepts of US government, geography, and economics. This course also introduces students to the interactive relationship between student, school community, and the community at large. Involvement will initiate with campus activities and the availability of community activities in which the student may participate.

BLENDED TEXAS HISTORY AND GEOGRAPHY 7 (TXHIST7 03343000)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	7	Semesters: 2

This modified course is the study of a unique land and diverse people from the prehistoric era to contemporary Texas. The study focuses on a multicultural society, which came together in Texas to create first an independent republic, and later a great state. Through modified study, students develop a reservoir of knowledge about their state and come to a better understanding of their role as Texans in the destiny of the United States.

BLENDED U.S. HISTORY AND CITIZENSHIP 8 (USHIST8 03343100)

Prerequisite:	ARD Committee Recommendation	
Grade Level:	8	Semesters: 2

This modified course is a study of the political, cultural, geographical, and economic development of the United States from the early colonial period through the Civil War and Reconstruction. The modified study focuses on significant personalities, issues, and events that have shaped America's destiny. Special emphasis is placed on the study of the democratic ideals that shape the foundation of our American way of life. Students examine issues critical to the preservation of these ideals and come to a better understanding of their role as responsible, participating citizens.

MISCELLANEOUS (Special Education Courses)

APPLIED SOCIAL SKILLS 7-8 (7 02070000; 8 02080000)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

Applied Social Skills emphasizes interpersonal skill development. Particular attention is placed on the skills of greeting, responding to authority, interpersonal appropriateness, problem solving, and conflict resolution with a situational context. Skills of verbal communication appropriate physical contact and body language, and expressions of anger or disagreement are included in the course.

PERSONAL SOCIAL SKILLS 7-8 (7 02070000; 8 02080000)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

Personal Social Skills emphasizes interpersonal skill development as a prerequisite to meaningful employment. Particular attention is placed on the skills of greeting, responding to authority, interpersonal appropriateness, and problem solving and conflict resolution with a situational context. Use of appropriate techniques is monitored through a variety of instructional settings including home, school, and other settings available in the community. Skills of verbal communication, appropriate physical contact and body language, expression of anger or disagreement, reporting in appropriate behaviors of others, and the ability to develop trust and work cooperatively are introduced and frequently reinforced. Part One of the course introduces self-appropriateness and concepts of self-expression. Part Two of the course emphasizes home, school, and community interpersonal skill development.

PRACTICAL SOCIAL SKILLS 7-8 (7 02070000; 8 02080000)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

Practical Social Skills emphasizes interpersonal skill development. Particular attention is placed on the skills of responding to authority, interpersonal appropriateness, problem solving, and conflict resolution within a situational context. Skills of verbal communication, appropriate physical contact and body language, and expressions of anger or disagreement are included in the course.

OCCUPATIONAL INVESTIGATIONS 7-8 (7 02070000; 8 02080000)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

Occupational Investigations is modified for students who need pre-employment training or skills in a significantly modified format. This course includes the development of concepts and skills needed in acquiring and maintaining a job, socioeconomic factors related to occupations and vocational self-appraisal. Students will examine the rights and responsibilities of employees and employers including safety issues and guidelines, social skills development, job search, and vocational experiences in the community. The use of the computer and Internet for job search, completing on-line applications, and data entry will be a part of this course.

PERSONAL MARKETING 7-8 (7 02070000; 8 02080000)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

Personal Marketing introduces the basic concepts and skills of personal growth and development, human relations, personality development, decision-making processes, and communication. Students will practice the skills related to job search and the elements of employability.

Pre-Vocational Awareness 7-8 (7 8299003; 8 8380003)

Prerequisite:	Diagnostic Evaluation and ARD Committee Placement	
Grade Level:	7-8	Semesters: 2

This course provides instruction and training for beginning vocational skills to assist students in gaining critical workplace skills as they work towards transition to postsecondary life. The focus of the course is to provide instruction of employment skills and adaptive behavior skills needed for gainful employment and increased citizenry participation.

HEB ISD SUMMER SCHOOL

HEB SUMMER SCHOOL information and materials will be available on each secondary campus after May 1. Any questions should be directed to your home campus. **ALL SUMMER SCHOOL ENROLLMENT MUST BEGIN ON YOUR HOME CAMPUS WITH APPROVALS GIVEN BY YOUR COUNSELOR.**

HURST-EULESS-BEDFORD INDEPENDENT SCHOOL DISTRICT PUBLIC NOTIFICATION AND NON-DISCRIMINATION STATEMENTS

Section §504

1. No qualified handicapped person shall, on the basis of handicap, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity sponsored by this school district except as specifically provided in Section 504 Implementing Regulations.
2. Hurst-Euless-Bedford Independent School District does not discriminate on the basis of disability by denying access to the benefits of district services, programs, or activities.

TITLE IX

No administrative officer or employee of the Hurst-Euless-Bedford Independent School District, acting in his/her official capacity may discriminate on the basis of a person's sex, race, religion, color, language, or national origin regarding: personnel practices, including assigning, hiring, promoting. Compensating, and discharging employees, use of facilities, awarding contracts, and participation in programs.

For information about your rights or grievance procedures, contact Title IX Coordinator, Luke DeFilippis at lukedefilippis@hebisd.edu, 817-283-4461 and/or the Section 504 Coordinator, Fritzie Odom at fritzieodom@hebisd.edu, 817-283-4461. More information is located online at [HEB ISD website](#).

CAREER AND TECHNICAL EDUCATION PROGRAM

Hurst Euless Bedford ISD
Annual Public Notification of Nondiscrimination
2025-2026

Hurst -Euless-Bedford ISD offers career and technical education programs in Architecture & Construction, Arts, A/V Technology & Communications, Business, Marketing & Finance, Education & Training, Engineering, Health Science, Hospitality & Tourism, Human Services, Information Technology, Law & Public Service, Manufacturing and Transportation, Distribution & Logistics. Admission to these programs is based on interest and aptitude, age appropriateness, and class space availability.

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 vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups 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.

It is the policy of Hurst-Euless-Bedford ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; 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 will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Title IX Coordinator at lukedefilippis@hebisd.edu, 817-283-4461 and/or the Section 504 Coordinator at fritzieodom@hebisd.edu, 817-283-4461.

www.hebisd.edu

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

Hurst Euless Bedford ISD
Aviso De No Discriminación
2024-2025

El Distrito Escolar Independiente de Hurst-Euless-Bedford ofrece programas de educación de carreras y de tecnología. Los siguientes son los programas que se ofrecen: Arquitectura y Construcción, Artes, Tecnología Audiovisual y Comunicaciones, Educación de dirección Empresarial y Administración, Educación y Entrenamiento, Ingeniería, Ciencia de Salud, Hospitalidad y Turismo, Servicios Humanos, Información de Tecnología, Estudios de Ley, Seguridad Pública, Corrección y Seguridad, Transportación y Distribución y Logísticas. La admisión a estos programas se basa en Interés y aptitud, edad apropiada y disponibilidad de espacio en el salón.

Es norma de Hurst-Euless-Bedford no discriminar en sus programas, servicios o actividades vocacionales y brinda igualdad de acceso a los Boy Scouts y otros grupos juveniles designados por motivos de raza, color, origen nacional, sexo o impedimento, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; Título IX de las Enmiendas en la Educación de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Es norma de no Hurst-Euless-Bedford no discriminar en sus procedimientos de empleo por motivos de raza, color, origen nacional, sexo, impedimento o edad, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; Título IX de las Enmiendas en la Educación, de 1972, la ley de Discriminación por Edad, de 1975, según enmienda; y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Hurst-Euless-Bedford tomará las medidas necesarias para asegurar que la falta de habilidad en el uso del inglés no sea un obstáculo para la admisión y participación en todos los programas educativos y vocacionales. Para información sobre sus derechos o procedimientos de quejas, comuníquese con el Coordinador del Título IX en (dirección), lukedefilippis@hebisd.edu, 817-283-4461 y/o el Coordinador de la Sección 504 en (dirección), fritzieodom@hebisd.edu, 817-283-4461.

www.hebisd.edu

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

**HURST-EULESS-BEDFORD
INDEPENDENT SCHOOL DISTRICT**

**2025-2026
BOARD OF TRUSTEES**

MATT ROMERO
President

JULIE COLE
Vice President

CHRIS BROWN
Secretary

DR. JOHN BIGGAN
FRED CAMPOS
ANDY CARGILE
BECKY EWART

ADMINISTRATION

DR. JOE HARRINGTON
Superintendent of Schools

DR. BRANDON JOHNSON
Deputy Superintendent of Educational Operations

KATINA RHODES
Assistant Superintendent of Secondary Administration

DR. HOLLY NORGAARD
Executive Director of Curriculum and Instruction

Special thanks goes to Program Coordinators and Directors for their contributions to this publication.

A Publication of the Hurst-Euless-Bedford Secondary Schools



HEB

HURST - EULESSA - BEDFORD

Independent School District

Cover Design by:
Francisco A. Senghor
BCTEA
Trinity High School
Class of 2024