

2024 | FORT WORTH ISD | 2025

# BULLETIN 100

GRADUATION STANDARDS

CATALOG OF COURSES

INSTRUCTIONAL MATERIALS

GRADES 6-12

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## **FOREWORD**

Graduation Standards and Catalog of Courses and Materials, Bulletin 100, is revised and published annually to apprise school personnel in the secondary division of curricular and policy changes regarding graduation requirements, course offerings, and instructional materials. This bulletin contains (1) state and local graduation standards in compliance with State Board of Education rules; (2) official information pertinent to the instructional program; (3) state assessment requirements; (4) recommended course sequences; (5) an annotated listing of secondary courses; (6) a list of state-adopted and locally approved instructional materials; and (7) indices to courses.

The State Board of Education has mandated that both the Texas Essential Knowledge and Skills (TEKS) and Chapter 74, Curriculum Requirements for Graduation be implemented. Bulletin 100 provides annotated descriptions of all approved district courses, along with information on mandated requirements.

For a complete listing of policies, please visit our website at:  
<https://pol.tasb.org/Home/Index/1101>

## **SECTION I: GENERAL INFORMATION**

### **ABSENCES/ATTENDANCE**

There are two state laws—one dealing with the required presence of school-aged children in school, e.g., compulsory attendance, the other with how a child’s attendance affects the award of a student’s final grade or course credit that address attendance requirements.

#### **Compulsory Attendance**

##### ***Age 19 and Older***

A student who voluntarily attends or enrolls after his or her 19th birthday is required to attend each school day until the end of the school year. If a student age 19 or older has more than five unexcused absences in a semester, the district may revoke the student’s enrollment. The student’s presence on school property thereafter would be unauthorized and may be considered trespassing. [See policy FEA.]

##### ***Between Ages 6 and 19***

State law requires that a student between the ages of 6 and 19 attend school, as well as any applicable accelerated instruction program, extended year program, or tutorial session, unless the student is otherwise excused from attendance or legally exempt.

##### ***Prekindergarten and Kindergarten***

Students enrolled in prekindergarten or kindergarten are required to attend school and are subject to the compulsory attendance requirements as long as they remain enrolled.

#### **Exemptions to Compulsory Attendance**

##### ***All Grade Levels***

State law allows exemptions to the compulsory attendance requirements for several types of absences if the student makes up all work. These include the following activities and events:

- Religious holy days;
- Required court appearances;
- Activities related to obtaining U.S. citizenship;
- Absences resulting from a serious or life-threatening illness or related treatment that makes the student’s attendance infeasible.
- Documented health-care appointments for the student or a child of the student, including absences for recognized services for students diagnosed with autism spectrum disorders, if the student comes to school or returns to school on the same day as the appointment. A note from the health-care provider must be submitted upon the student’s arrival or return to campus; and

For students in the conservatorship (custody) of the state:

- An activity required under a court-ordered service plan; or
- Any other court-ordered activity, provided it is not practicable to schedule the student’s participation in the activity outside of school hours.

For children of Military Families, absences of up to five days in a school year will be excused for a student to visit with a parent, stepparent, or legal guardian who has been called to duty for, is on leave from, or immediately returned from certain deployments.

## ***Secondary Grade Levels***

In addition, a junior or senior student's absence of up to two days related to visiting a college or university will be considered an exemption, provided the student follows the campus procedures to verify such a visit, and makes up any work missed.

A student who is a junior or senior in high school may also be excused from school for up to two days each year for a "career investigation day" that involves visiting a professional at their workplace for the purpose of determining the student's interest in pursuing a career in the professional's field.

Absences of up to two days in a school year will also be considered an exemption for:

- A student serving as an early voting clerk, provided the student notifies his or her teachers, and the student receives approval from the principal prior to the absences; and
- 
- A student serving as an election clerk, if the student makes up any work missed.

An absence of a student in grades 6–12 for the purpose of sounding "Taps" at a military honors funeral for a deceased veteran will also be excused by the district.

An absence of one day for a student who is 15 years of age or older from attending school to visit a driver's license office to obtain a driver's license or learner license.

## **Failure to Comply with Compulsory Attendance**

### ***All Grade Levels***

School employees must investigate and report violations of the state compulsory attendance law. A student absent without permission from school; from any class; from required special programs, such as additional special instruction, termed "accelerated instruction" by the state; or from required tutorials will be considered in violation of the compulsory attendance law and subject to disciplinary action.

### ***Age 19 and Older***

After a student age 19 or older incurs a third unexcused absence, the district will send the student a letter as required by law explaining that the district may revoke the student's enrollment for the remainder of the school year if the student has more than five unexcused absences in a semester. As an alternative to revoking a student's enrollment, the district may implement a behavior improvement plan.

### ***Between Ages 6 and 19***

When a student between ages 6 and 19 incurs unexcused absences for three or more days or parts of days within a four-week period, the school will send a notice to the student's parent, as required by law, to remind the parent that it is the parent's duty to monitor his or her child's attendance and to require the student to come to school. The notice will also inform the parent that the district will initiate truancy prevention measures and request a conference between school administrators and the parent. These measures will include a behavior improvement plan, school-based community service, or referrals to either in-school or out-of-school counseling or other social services. Any other measures considered appropriate by the district will also be initiated.

The truancy prevention facilitator for the district is the Assistant Director of Student Engagement and School Completion, Barry Smith. Each school pyramid has a designated stay-in-school coordinator that is housed at the high school within each pyramid.

A court of law may also impose penalties against a student's parent if a school-aged student is deliberately not

attending school. A complaint against the parent may be filed in court if the student is absent without excuse from school on ten or more days or parts of days within a six-month period in the same school year.

If a student ages 12–18 incurs unexcused absences on ten or more days or parts of days within a six-month period in the same school year, the district, in most circumstances, will refer the student to truancy court.

[See policy FEA (LEGAL).]

### **Attendance for Credit or Final Grade (Kindergarten–Grade 12)**

To receive credit or a final grade in a class, a student in kindergarten–grade 12 must attend at least 90 percent of the days the class is offered. A student who attends at least 75 percent but fewer than 90 percent of the days the class is offered may receive credit or a final grade for the class if he or she completes a plan, approved by the principal, which allows the student to fulfill the instructional requirements for the class. If a student is involved in a criminal or juvenile court proceeding, the approval of the judge presiding over the case will also be required before the student receives credit or a final grade for the class.

If a student attends less than 75 percent of the days a class is offered or has not completed the plan approved by the principal, then the student will be referred to the attendance review committee to determine whether there are extenuating circumstances for the absences and how the student can regain credit or a final grade lost because of absences. [See policy FEC.]

All absences, whether excused or unexcused, must be considered in determining whether a student has attended the required percentage of days. In determining whether there were extenuating circumstances for the absences, the attendance committee will use the following guidelines:

- If makeup work is completed, absences for the reasons listed above at **Exemptions to Compulsory Attendance** will be considered extenuating circumstances for purposes of attendance for credit or the award of a final grade.
- A transfer or migrant student begins to accumulate absences only after he or she has enrolled in the district.
- In reaching a decision about a student's absences, the committee will attempt to ensure that it is in the best interest of the student.
- The committee will review absences incurred based on the student's participation in board-approved extracurricular activities. These absences will be considered by the attendance committee as extenuating circumstances in accordance with the absences allowed under FM (LOCAL) if the student made up the work missed in each class.
- The committee will consider the acceptability and authenticity of documented reasons for the student's absences.
- The committee will consider whether the absences were for reasons over which the student or the student's parent could exercise any control.
- The committee will consider the extent to which the student has completed all assignments, mastered the essential knowledge and skills, and maintained passing grades in the course or subject.
- The student or parent will be given an opportunity to present any information to the committee about the absences and to talk about ways to earn or regain credit or a final grade.

The student or parent may appeal the committee's decision to the board by following policy FNG (LOCAL).

The actual number of days a student must be in attendance in order to receive credit or a final grade will depend on whether the class is for a full semester or for a full year.

The attendance committee may impose any of the following conditions for students with excessive absences to regain credit or be awarded a final grade:

- Completing additional assignments, as specified by the committee or teacher.
- Attending tutorial sessions as scheduled, which may include Saturday classes or before- and after-school programs.
- Maintaining attendance standards for the rest of the semester.
- Taking an examination to earn credit [See EHDB policy]
- Attending a flexible school day program.
- Attending summer school to retake the course.

In all cases, the student must earn a passing grade in order to receive credit.

### Effect of Excessive Absences on Course Credit

Excessive absences are noted on the student's transcript with an \* placed above the course grade.

Fine Arts		SE	S1	S2	Av	Cr.	<i>Note: credit will not be awarded until excessive absences are made up.</i>
1051A	Honors Art 1A	H	*78		78	0.00	
1051B	Honors Art 1B	H		*87	87	0.00	

Accompanying foot note at the bottom of the transcript will read: \* No credit given due to excessive absences.

### Home Tutored Pregnant Students Attendance

Attendance is compiled weekly. Pregnant students, with the appropriate medical documentation, can choose to receive Compensatory Education Home Instruction (CEHI), locally called the prenatal/postnatal tutoring program (FNE policies). Texas Education Agency (TEA) guidelines for this CEHI program must be followed. The guidelines require tutoring by a certified teacher in the areas the student is being tutored. This results in the student earning attendance days as outlined in the TEA guidelines. Coursework assignments must be provided by the teacher of record for the student to be tutored on a week-by-week basis so that the attendance days can also be earned on a week-by-week basis. Failure to provide the appropriate weekly coursework assignments and the subsequent grading of those assignments must not result in the student's grade for this period being adversely influenced.

### High School Dual Credit Attendance

For courses taught by a Tarrant County College instructor, attendance is governed by the TCCD policy on attendance. Dual credit students are expected to attend classes according to the dual credit class schedule. Students are to contact their campus Postsecondary Specialist and their dual credit professor if they are unable to attend class. Alerting an instructor early of attendance conflicts is critical. Students are to be considered in attendance during the semester unless otherwise informed by the FWISD CCR/Dual Credit Coordinator and/or the campus CCR Coordinator. The FWISD CCR/Dual Credit Coordinator and the campus CCR Coordinator will communicate updates to the campus attendance clerks as needed. Attendance will be processed by the campus attendance clerk.

For courses taught by FWISD credentialed instructors, the district attendance procedures will be followed.

For Early College High School courses, attendance is taken at the alternate high school attendance-taking time.

## ACCELERATION FOR STUDENTS WHO ARE NOT BEHIND IN CREDITS

Method	Available For	Grade Needed	GPA Impact	EOC Impact
Credit-By-Exam Without Prior Instruction	<ul style="list-style-type: none"> <li>A student who has not had prior instruction in a course</li> </ul>	80	Grade will be noted on the transcript, but is not used in the calculation of GPA	For a CBE for a course that requires an EOC - the student will be exempt from the EOC
Summer School	<ul style="list-style-type: none"> <li>Courses not requiring an EOC and</li> <li>Identified in the Summer School Catalog as available for Acceleration</li> </ul>	70	Grade is used in the calculation of GPA	Student is required to take the EOC
Texas Virtual School Network, Texas Tech, or UT for a <b>current FWISD student</b>	<ul style="list-style-type: none"> <li>Any student who wants to accelerate and has met prerequisite requirements for the course</li> </ul>	70	Grade will be noted on the transcript, but is not used in the calculation of GPA	Student is required to take the EOC
Texas Virtual School Network, Texas Tech, or UT for a <b>student who is not enrolled in FWISD</b>	<ul style="list-style-type: none"> <li>Any student who wants to accelerate and has met prerequisite requirements for the course</li> </ul>	70	Grade will be noted on the transcript, but is not used in the calculation of GPA	For an EOC course, student is not required to take the EOC provided that the credit was awarded prior to student enrolling in FWISD.
District-Approved Web-Based Program	<ul style="list-style-type: none"> <li>At some middle school campuses</li> <li>Limited courses that allow students to earn high school credit</li> </ul>	70	Grade will be noted on the transcript, but is not used in the calculation of GPA	

## **AUTOMATIC ADMISSION INTO FOUR-YEAR PUBLIC UNIVERSITIES AND COLLEGES IN TEXAS**

For two school years following his or her graduation, a district student who graduates in the top ten percent and, in some cases, the top 25 percent, of his or her class is eligible for automatic admission into four-year public universities and colleges in Texas if the student:

- Completes the curriculum requirements for the Distinguished Level of Achievement under the Foundation High School Program; or
- Satisfies the ACT College Readiness Benchmarks or earns a minimum score of 480 on the Evidence-Based Reading & Writing test and a minimum score of 530 on the math test if the SAT was administered on or after March 5, 2016.

In addition, the student must submit a completed application for admission in accordance with the deadline established by the college or university. The student is ultimately responsible for ensuring that he or she meets the admission requirements of the university or college to which the student applies.

The University of Texas at Austin may limit the number of students automatically admitted to 75 percent of the University's enrollment capacity for incoming resident freshmen. For students who are eligible to enroll in the University during the summer/fall 2025 or spring 2026, the University will be admitting the top **six** percent of the high school's graduating class who meet the above requirements. Additional applicants will be considered by the University through a holistic review process.

Should a college or university adopt an admissions policy that automatically accepts the top 25 percent of a graduating class, the provisions above will also apply to a student ranked in the top 25 percent of his or her class.

Students and parents should contact the school counselor for further information about automatic admissions, the application process, and deadlines.

[See also **Class Rank/Highest-Ranking Student** for information specifically related to how the district calculates a student's rank in class, and requirements for **Graduation** for information associated with the foundation graduation program].



## **CAREER AND TECHNICAL EDUCATION (CTE)**

Fort Worth ISD Career & Technical Education offers a variety of Programs of Study. Each Program of Study has a developed coherent sequence of courses to provide students with an option to receive an Endorsement with their high school diploma based on House Bill 5/Foundation Graduation Program Requirements. Each Program of Study begins with foundation courses that allow students to explore the careers and learn basic concepts and skills needed within that focus.

Each Program of Study begins with foundation courses that allow students to explore the careers and learn basic concepts and skills needed within that focus. As students move forward in the Program of Study, they will begin to take technical courses that provide them with advanced knowledge and skills in preparation for postsecondary education and/or for jobs in their chosen career field. Programs of Study also prepare students to complete industry certifications that will allow them to become more employable with higher starting wages and provide them with a Performance Acknowledgement.

### **Programs of Study**

For options of Career and Technical Education Programs of Study, please refer to the Program of Study charts and course descriptions found in the Career & Technical Education tabbed section of this book.

### **Endorsements**

Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area.

Students earn endorsements by successfully completing at least 26 credits that include a coherent sequence of CTE courses for four or more credits, including at least one advanced CTE course, four math credits (including at least one advanced math course), and four science credits (including at least one advanced science course).

The STEM Endorsement also requires chemistry and physics as two of the four science credits and Algebra II as one of the four math credits.

## CLASS RANK BEGINNING WITH THE GRADUATING CLASS OF 2024

The District includes in the calculation of class rank the eight highest eligible semester grades earned in high school courses taken in grades 9 – 12 in each of the following subjects only:

- English language arts,
- Mathematics,
- Science, and
- Social Studies

When the student reaches grade 12, if the student has earned fewer than eight eligible semester grades in one or more of these subjects in grades 9 – 12, the District shall use eligible semester grades earned before grade 9, as necessary, for a total of eight grades in each of these subjects.

The calculation of class rank excludes grades earned in or by:

- A local credit course;
- A course for which a pass/fail grade is assigned;
- Credit by examination, with, or without prior instruction;
- Distance learning and traditional correspondence courses, and
- Dual credit courses taken through a college with which the District **does not** have a partnership agreement.

If a student takes a dual credit course through a college with which the District has a partnership agreement AND receives permission to take the course, the grade earned will be included in GPA. To be included in Core GPA, the course must be listed on the chart of courses that are included in Core GPA.

**See Class of 2024 Document in the front of the FORMS section of B100**

### Weighted GPA Beginning with the Class of 2023

The District categorizes and weights courses as Tier I, Tier II, and Tier III in accordance with policy EIC (LOCAL). The Weighted GPA is used to determine local graduation honors and the highest-ranking graduate.

Tier I courses include Advanced Placement (AP) courses, OnRamps courses, dual credit courses, any courses for which a Tier I course is a prerequisite, and other rigorous District-designated courses.

Tier II courses include high school Honors courses, Pre-IB courses, and other courses locally designated as honor courses.

Tier III courses include all other courses not designated as Tier I or Tier II courses.

The District converts semester grade points and calculates a weighted GPA in accordance with the following chart:

Grade	TIER I	TIER II	TIER III
97 and above	5.0	4.5	4.0
94–96	4.8	4.3	3.8
90–93	4.6	4.1	3.6

87-89	4.4	3.9	3.4
84-86	4.2	3.7	3.2
80-83	4.0	3.5	3.0
77-79	3.8	3.3	2.8
74-76	3.6	3.1	2.6
71-73	3.4	2.9	2.4
70	3.0	2.5	2.0
69 or below	0	0	0

### **Unweighted GPA Beginning with the Class of 2023**

The District also calculates an unweighted GPA using a simple whole-number scale. Both the Core weighted and unweighted GPAs are displayed in FOCUS and on the student’s transcript.

<b>Grade</b>	<b>Unweighted Simple 4.0 GPA Scale</b>
90 – 100	4.0
80 – 89	3.0
70 – 79	2.0
69 or below	0.0

#### Transfers from Other School Districts

A high school student who transfers into the district will be placed on the GPA scale according to the enrollment grade-level noted in Focus.

If the student has a change in grade placement, his/her GPA will be recalculated the semester following the grade change, and will be ranked among students classified in the same grade.

### **Class Rank for Application to Institutions of Higher Education**

The District shall also calculate class ranking as required by state law. The District’s eligibility criteria for local graduation honors shall apply only for local recognitions and shall not restrict class ranking for the purpose of automatic admission under state law per EIC (LEGAL).

## COLLEGE CREDIT COURSES

Students in grades 9–12 have opportunities to earn college credit through the following methods:

- Earning a 3, 4, or 5 on an Advanced Placement (AP) test (based on the guidelines for each college or university);
- Earning a passing grade while enrolled in:
  - College courses in an Early College High School;
  - Dual Credit courses;
  - A dual enrollment course with OnRamps through a partnership with the University of Texas at Austin;
  - An AP or dual credit course through the Texas Virtual School Network;
  - Courses taught at other colleges or universities; and
  - Certain CTE courses.

Students must meet eligibility requirements to enroll in the courses above and **must receive approval from the principal prior to enrollment**. Depending on the student's grade level and the course, a state-mandated end-of-course assessment may be required for graduation.

It is important to keep in mind that not all colleges and universities accept credit earned in all dual credit, dual enrollment, or AP courses taken in high school for college credit. Students and parents should check with the prospective college or university to determine if a particular course will count toward the student's desired degree plan.

### Advanced Placement Courses with Qualifying Examination Scores of 3, 4, or 5

Upon completion of an AP course, the student will take a College Board Advanced Placement examination over the content of the course. Students earning a 3, 4, or 5 on an AP examination are eligible for a graduation Performance Acknowledgement on the Foundation Graduation Program. In addition, a student earning a 3, 4, or 5 may receive college credit upon enrollment in college. Each individual institution determines credit guidelines. The College Board link <https://apscore.collegeboard.org/creditandplacement/search-credit-policies> offers information on receiving college credit. AP course options vary among the high schools; contact the high school Postsecondary Success Specialist to identify which of the 38 FWISD offered AP courses are available at the high school. For general information about the Advanced Placement program, students and parents are encouraged to visit the following website: <http://student.collegeboard.org/>

### Advanced Placement Courses in Middle School

Some middle schools offer an AP Spanish Language and Culture course that Grade 8 students may take. Grade 8 students successfully completing the course will receive credit toward high school graduation, and upon receiving a successful examination score of 3, 4, or 5 will, after entering high school, be eligible for a graduation Performance Acknowledgement under the Foundation Graduation Program. In addition, students earning a 3, 4, or 5 may be eligible to receive college credit.

## COLLEGE AND CAREER READINESS CURRICULUM REQUIREMENTS FOR HOUSE BILL 18

House Bill 18, passed during the 84<sup>th</sup> legislative session added the following requirement at middle school:

§28.016 – Provide instruction to students in grades seven or eight in preparing for high school, college, and a career. The instruction must include information on:

- the creation of a high school personal graduation plan,
- the distinguished level of achievement,
- each endorsement,
- college readiness standards, and
- potential career choices and the education required for them.

## COMBINING SEMESTERS OF AP COURSES WITH NON-AP COURSES

A student who is enrolled in the first semester of an AP course, fails the AP course, and enrolls in the second semester of a TEKS course may be able to combine and average both grades to earn credit for the entire course. See chart below:

<b>AP Course 1<sup>st</sup> Semester</b>	<b>TEKS Course 2<sup>nd</sup> Semester</b>	<b>Allow 1.0 credit if the average of the two semesters is equal to or greater than 70</b>
AP Human Geography	World Geography	Yes
AP Modern World History	World History	Yes
AP US History	US History	Yes
AP Physics 1	Physics	Yes
AP Chemistry	Chemistry	No
AP Biology	Biology	No
AP Environmental Science	Environmental Systems	Yes
AP Eng Lang/Eng Lit	English III or IV	Yes
AP Statistics	Statistics	Yes

## COMBINING SEMESTERS OF DUAL CREDIT COURSES WITH NON-DC COURSES

A student who is enrolled in the first semester of a DC course, fails the DC course, and enrolls in the second semester of a TEKS course may be able to average the grades in both semesters to earn credit for the entire course. See chart below:

<b>DC Course 1<sup>st</sup> Semester</b>	<b>TEKS Course 2<sup>nd</sup> Semester</b>	<b>Allow 1.0 credit if the average of the two semesters is equal to or greater than 70</b>
DC World Geography	World Geography	Yes
DC World History	World History	Yes
DC US History	US History	Yes
DC English Composition	English III or IV	Yes
DC British Literature	English IV	Yes
DC American Literature	English IV	Yes
DC Pre-Calculus	Pre-Calculus	Yes
DC Integrated Physics & Chemistry	Integrated Physics & Chemistry	Yes
DC Chemistry A	Chemistry	Yes
DC Chemistry B	Chemistry	Yes
DC Physics A	Physics	Yes
DC Physics B	N/A	N/A
DC Aquatic Science	Aquatic Science	Yes
DC Earth & Space Science	Earth & Space Science	Yes
DC Organic Chemistry A	Honors Organic Chemistry	Yes
DC Organic Chemistry B	N/A	N/A
DC Astronomy A	Astronomy	Yes
DC Astronomy B	Astronomy	Yes
DC Environmental Systems	Environmental Systems	Yes
DC Math Business and Social Science	Advanced Quantitative Reasoning	Yes

## COMBINING SEMESTERS OF ONRAMPS COURSES WITH NON-ONRAMPS COURSES

A student who is enrolled in the first semester of an OnRamps course, fails the OnRamps course, and enrolls in the second semester of a TEKS based course may be able to average the grades in both semesters to earn credit for the entire course. See chart below:

OnRAMPS Course 1 <sup>st</sup> Semester	TEKS Course 2 <sup>nd</sup> Semester	Allow one full credit if the average of both semesters is equal to or greater than 70
OnRamps US History 1492 – 1865A (8049A)	US History Since 1877 (8056B)	Yes
OnRamps Rhetoric and Writing (3044AB)	English III (3015B)	Yes
OnRamps Rhetoric and Writing (3045AB)	English IV (3017B)	Yes
OnRamps Physics I (7613AB)	Physics (7614B)	Yes
OnRamps Physics II (STH03724AB)	N/A	N/A
OnRamps Earth and Space Science (7534AB)	Earth and Space Science (7538AB)	Yes
OnRamps Chemistry I (7597AB)	Chemistry (7592AB)	Yes
OnRamps Chemistry II (7593AB)	Chemistry (7592AB)	No
OnRamps Biology (7591AB)	Biology (7572AB)	No
OnRamps College Algebra (7050AB)	Algebra 2 (7053AB)	Yes
OnRamps PreCalculus (7119AB)	PreCalculus (7121B)	Yes
OnRamps Statistics (7146AB)	Statistics (7144B)	Yes
OnRamps Computer Science (2159AB)	N/A	N/A
OnRamps Art IV: Pixels, Samples, Lumens, Illusion (1073AB)	N/A	N/A
OnRamps Quantum Computing	Honors Mathematical Modeling using Computer simulation	Yes

## COMPLAINTS AND CONCERNS

Usually student or parent complaints or concerns can be addressed informally by a phone call or a conference with the teacher or principal. For those complaints and concerns that cannot be handled so easily, the board has adopted a standard complaint policy at FNG (LOCAL) in the district's policy manual. A copy of this policy may be obtained on the district's website at <https://pol.tasb.org/Policy/Code/1101?filter=FNG>

Should a parent or student feel a need to file a formal complaint, the parent or student should file a district complaint form within the timelines established in policy FNG (LOCAL).

## **COURSE OFFERINGS**

A secondary school may offer courses included in this document or any course for which individual approval on an experimental basis has been received, following procedures in these guidelines. Each course must be offered by the exact title and for credit as specified in Bulletin 100. Some courses are approved for use in specific schools or programs only.

The types of courses listed in this Bulletin are:

- state-credit courses (TEKS based courses, Advanced Placement (AP), dual credit courses, or OnRamps courses);
- state-credit courses approved by the state as an innovative course (locally developed and not included as meeting state graduation requirements, except as elective credits); and
- local-credit courses (may not be used to meet any state requirements for graduation).

The District and/or the State Board of Education must approve all courses before they may be offered to students.

### **New Course Additions & Course Deletions**

Once a year, district administrators develop new course proposals for the addition of new courses.

At the same time, subject area directors will identify courses that do not have sufficient enrollment to justify their continuance or courses that are no longer appropriate. These courses will be recommended for deletion.

Upon receipt of all new course proposals and course deletions, a meeting will be held with curriculum cabinet members, budget office staff, secondary school leadership, and the course proposal authors. The proposal authors will summarize the proposed courses and answer any questions. Following approval from this representative group, a consent agenda is prepared for review by the Leadership Team.

The proposals will be submitted to the Superintendent and the Board for study and approval.

Upon approval by the Board:

- Courses will be added or deleted for the following school year. New courses already included in Chapter 74 do not require TEA approval.
- New courses requiring TEA approval will be sent to TEA as an innovative course.
- Courses that are not used to meet state graduation requirements will be offered as local-credit courses.
- All new courses will be assigned a FWISD course number.



## COURSES WITH THE SAME PEIMS NUMBER

A student who takes more than one course with the same PEIMS number will only receive credit for the first time taken; both courses will appear on the transcript with grades. The second time the student takes the course will be considered local credit, which does not count towards state or district graduation requirements. However, the grades for both courses may be used in the calculation of GPA. **This list is not all-inclusive.** Please check the PEIMS number of similar courses when there is doubt.

***Before enrolling a student in a dual credit course, check to make sure that the student does not already have credit for a course with that PEIMS number.***

Content	Course Name	PEIMS Number	FWISD Course Number
Math	Algebra 2	03100600	7053 AB
	Honors Algebra 2	03100600	7057 AB
	OnRamps College Algebra	03100600	7050 AB
	Precalculus	03101100	7121 AB
	Honors Precalculus	03101100	7123 AB
	OnRamps Precalculus	03101100	7119 AB
	Statistics	03102530	7144 AB
	AP Statistics	A3100200	7145 AB
	OnRamps Statistics	A3100200	7146 AB
	Independent Study in Math 1: Local Design Using Boolean Algebra	031025XX	7275 AB
	Independent Study in Math 1: Electrical Circuit Theory	031025XX	7278 AB
	Independent Study in Math 1: Modeling Using Computer Simulation	031025XX	7130 AB
	Independent Study in Math 1: Multivariable Calculus	031025XX	7128 AB
	Independent Study in Math 1: Honors Number Theory	031025XX	7215 AB
	Independent Study in Math 1: Calculus based Statistics	031025XX	7235 AB
	Independent Study in Math 1: Dual Credit Calculus based Statistics	031025XX	7237 AB
	Independent Study in Math 1: Honors Linear Algebra	031025XX	7277 AB
	Independent Study in Math 1: Astrophysics	031025XX	7257 AB
	Independent Study in Math 1: History of Mathematics	031025XX	
	Independent Study in Math 1: Optics	031025XX	7256 AB
Independent Study in Math 1: Survey of Mathematics	031025XX		
Independent Study in Math 1: Dual	031025XX	7279 T	

<b>Content</b>	<b>Course Name</b>	<b>PEIMS Number</b>	<b>FWISD Course Number</b>
	Credit Linear Algebra		
	Independent Study in Math 1: Dual Credit Ordinary Differential Equations and their Applications	031025XX	7135 AB
	Independent Study in Math 3: Astrophysics	031025XX	7257 AB
	Independent Study in Math 3: Honors Thermodynamics	031025XX	
	Independent Study in Math 3: OnRamps Honors Mathematical Modeling/Quantum Computing	031025XX	TBD
	College Prep Math	CP111200	7040 AB
	Texas College Bridge Math (elective)	CP111200	9006 T
<b>Social Studies</b>	US History Since 1877 AB	03340100	8056 AB
	Honors US History Since 1877 AB	03340100	8066 AB
	OnRamps US History 1492 – 1865 A	A3340100	8049 A
	OnRamps US History Since 1865 B	A3340100	8049 B
	AP US History	A3340100	8215 AB
	Advanced Social Studies Research Methods in Psychology	033800XX	8146 T
	Social Studies Advanced Studies	033800XX	8138 T
	Honors Social Studies Advanced Studies	033800XX	8142 T
	STPSS American Culture Studies	033800XX	8038 T
	STPSS Dual Credit Philosophy	033800XX	8039 T
	SPTSS Dual Credit Geography Themes and Perspectives (TCC)	033800XX	8004 A & 8004 B
	SPTSS Dual Credit Latino/a American Studies	033800XX	8041 T
	SPTSS Dual Credit Latino/a Studies	033800XX	8043 T
	SPTSS Honors History of Health and Medicine		8044 T
	SPTSS African American Historical Perspectives and Contributions	033800XX	8045 T
	SPTSS Dual Credit Texas Government	033800XX	8073 T
	STPSS Dual Credit Microeconomics	033800XX	8095 T
	SPTSS Contribution of Women in History	033800XX	8047 T
	SPTSS Dual Credit Geography Themes and Perspectives (TWU)	033800XX	8002 T
	SPTSS Military History	033800XX	5975 AB
	SPTSS Advanced World History CA. 1500	033800XX	8053 AB

<b>Content</b>	<b>Course Name</b>	<b>PEIMS Number</b>	<b>FWISD Course Number</b>	
<b>Science</b>	Physics AB	03050000	7614 AB	
	Pre-AP Physics AB	03050000	7616 AB	
	OnRamps Physics AB	03050000	7613 AB	
	Biology	03010200	7572 AB	
	Honors Biology	03010200	7574 AB	
	AP Biology	A3010200	7590 AB	
	OnRamps Biology	A3010200	7591 AB	
	Chemistry AB	03040000	7592 AB	
	Honors Chemistry AB	03040000	7594 AB	
	OnRamps Chemistry I	03040000	7597 AB	
	AP Chemistry	A3040000	7610 AB	
	OnRamps Chemistry II	A3040000	7593 AB	
	AP Physics II	A3050004	7627 AB	
	OnRamps Physics II	A3050004	STH03724AB	
	Earth and Space Science AB	03060200	7538 AB	
	OnRamps Earth and Space Science AB	03060200	7534 AB	
	SCIRD	130372XX	ST37202 AB	
	SCIRD Honors	130372XX	STH37202 AB	
	SCIRD II	130372XX	ST37212 AB	
	Honors SCIRD II	130372XX	STH37212 AB	
	SCIRD III	130372XX	ST37222 A	
	Honors SCIRD III	130372XX	STH37222 AB	
	SCIRD: Introduction to Cell Biology	130372XX	7578 AB	
SCIRD Dual Credit Biology for Science Majors	130372XX	STD37202 AB		
SCIRD Dual Credit Biology for Non-Science Majors	130372XX	STD1408 AB		
SCIRD Dual Credit General Chemistry	130372XX	STD1411 AB		
SCIRD Dual Credit College Physics I & II	130372XX	STD1401 AB		
SCIRD Honors Project Based Research in Botany and Sustainable Horticulture	130372XX	STH30372 AB		
SCIRD Honors Intel Talent Search I	130372XX	STH03722 AB		
SCIRD Honors Intel Talent Search II	130372XX	STH03712 AB		
SCIRD Honors Design Interaction of Radiation with Matter	130372XX	7709 AB		
<b>Technology</b>	AP Computer Science Principles	A3580300	2157 AB	
	OnRamps Computer Science	A3580300	2159 AB	

<b>Content</b>	<b>Course Name</b>	<b>PEIMS Number</b>	<b>FWISD Course Number</b>
	Graphic Design 2	13008900	AV08810AB
	Graphic Design 2- Yearbook and Graphic Design 2- Yearbook Honors	13008900	AV08814AB And AVH08814AB
	Principles of Information Technology	13027200	ITH27201AB
	Principles of Emerging Information Technology Dual Credit	13027200	ITD27211AB
	Principles of Transportation Systems: Automotive	13039250	
	Principles of Transportation Systems: Collision	13039250	
<b>English</b>	English III	03220300	3015 AB
	Honors English III	03220300	3094 AB
	OnRamps English Rhetoric & Writing AB*	03220300	3044 AB
	English IV	03220400	3017 AB
	OnRamps English Rhetoric & Writing AB*	03220400	3045 AB
	IS ELA	03221800	3138 AB
	IS ELA Honors Critical Thinking for College Readiness	03221800	3066 AB
	IS ELA Linguistics	03221800	3063 AB
	IS ELA Dual Credit American Literature	03221800	3048 T
	IS ELA Introduction to Biblical Literacy	03221800	3150 AB
	IS ELA Dual Credit British Literature	03221800	3142 AB
	IS ELA Dual Credit Mexican American Literature	03221800	3144 T
	IS ELA Dual Credit World Literature I	03221800	3146 T
	IS ELA Dual Credit World Literature II	03221800	3147 T
	IS ELA Dual Credit Creative Writing	03221800	3151 T
	IS ELA II Dual Credit Forms of Literature	03221810	3148 T
	IS ELA II Dual Credit Research and Technical Writing	03221810	
	IS ELA II Philosophy and Literature	03221810	3042 AB
	College Prep English	CP110100	3131 AB
	TCB English	CP110100	9005 T
<b>LOTE</b>	Spanish I	03440100	4071 AB
	Dual Credit Spanish I	03440100	4067 AB

\*Although these courses have different PEIMS numbers, the content of these courses is the same; therefore, a student can only take this course one time – either as a substitute for English III or English IV.

Independent Study in English, Independent Study in Math, and Special Topics in Social Studies courses have latitude to assign a given course to multiple PEIMS numbers. If a student already has credit for a given PEIMS number in these courses and wishes to take another course within that same PEIMS number, a course can be built with the new PEIMS number and embedded into the original course on the schedule for that student. It is important that counselors pay attention to which PEIMS numbers of students already have credit for in these courses when completing student schedules.

## COURSES WITH EQUIVALENT PEIMS NUMBERS

The courses on the table below are considered equivalent courses by TEA. Though these courses have unique PEIMS numbers, they are considered equivalent due to duplicative TEKS. A student cannot earn credit for more than one course in each area. The second time the student takes the course will be considered local credit, which does not count towards state or district graduation requirements. If a student takes both courses within an area, both courses may be used in the calculation of GPA.

<b>Content</b>	<b>Course Name</b>	<b>Equivalent Course Name</b>
<b>Social Studies</b>	World Geography or Honors World Geography	AP Human Geography
<b>Science</b>	Physics or Honors Physics	Principles of Technology
<b>English</b>	English I or Honors English I	ESOL I
	English II or Honors English II	ESOL II
<b>LOTE</b>	Spanish I or Dual Credit Spanish I	Spanish I for Spanish Speakers
	Spanish II, Honors Spanish II, or Dual Credit Spanish II	Spanish II for Spanish Speakers
	Honors Spanish III or Dual Credit Spanish III	Spanish III for Spanish Speakers
	Honors Spanish IV, or Dual Credit Spanish IV	Spanish IV for Spanish Speakers

## CREDIT BY EXAMINATION

The District offers students the opportunity to take a credit by examination (CBE) to demonstrate mastery in a subject or to earn course credit with or without prior instruction. [Policies EHDB and EHDC] CBEs are available for most courses. The District uses CBEs purchased from Texas Tech University and/or The University of Texas. Most

of the CBEs used by Fort Worth ISD will be administered online. The exams assess the student's mastery of the essential knowledge and skills relevant to the applicable subject. The exams are periodically reviewed by the State for alignment with essential knowledge and skills.

Successful course credit will be indicated on the transcript with the actual grade earned, but the grade will not be used in the calculation of GPA. If credit is not awarded, documentation of the examination will be placed in the student's academic achievement folder.

### **With Prior Instruction**

A student can take a CBE when the student has had prior instruction and when:

- The student is enrolling in the District from a non-accredited school or home school; or
- The district needs to determine the proper placement of the student; or
- The student failed a subject or course; or
- The student has earned a passing grade in a subject or course but failed to earn credit due to excessive absences.

To receive credit for the course, a student must score a 70 or above on the CBE. Examinations will assess the student's mastery of the essential knowledge and skills and will be administered according to established District procedures.

Prior to offering a student an opportunity to demonstrate mastery or to earn credit by this method, an appropriate District employee will review the student's educational record to determine whether the student has had prior instruction in the subject or course.

### **Middle School**

Students in grades 6 – 8 who have received prior instruction in previous courses may be placed into the appropriate course or courses based upon evidence from sources such as prior performance in the subject, teacher recommendations, and scores on locally administered tests and inventories. A campus committee consisting of the principal, counselor, and classroom teachers will make placement decisions. No placement will be made without parent approval. Placement can be made for six weeks pending results from CBEs.

Students may not place out of any courses for which high school credit toward graduation is awarded unless the student takes a CBE certified by the FWISD. Should a parent challenge placement or request alternative placement(s) or examinations, the District may administer and recognize results of a test purchased by the parent or student from Texas Tech University or the University of Texas at Austin.

### **High School**

Students entering the district, who have been homeschooled or are coming from unaccredited schools seeking placement/validation of grade level or coursework, may be placed in appropriate course or grade level based on the decision of a campus committee consisting of the principal, counselor, and classroom teachers. If a student is Limited-English-Proficient, the LPAC must work in collaboration with the campus committee to determine appropriate instructional placement/validation. This placement requires parental approval. Evidence of previous classroom work, results of standardized testing, psychologists' recommendations, or records from previous setting(s) may be considered in order to determine placement. Should a parent challenge the placement, the parent may request an alternative examination. The FWISD may administer and recognize results of a test purchased by the parent or student from Texas Tech University or The University of Texas at Austin. A six-week placement for observation may be made pending CBE results.

### **Without Prior Instruction**

Students can take a Credit by Exam to earn credit for a course without prior instruction. No prior instruction is

defined as having no formal instruction in the specific course content and/or grade for which the examination is given. In order to receive credit, a student must earn a score of 80 or above. Award of credit for a two-semester course is based upon successful passing scores on CBEs for both semesters.

Students will only be administered the tests for which they have an official registration verified and approved by their counselor. Students cannot register to take a CBE while concurrently enrolled in the course for which they are taking the exam. There is no charge to the student for taking a CBE for purposes of acceleration. Transportation to and from the testing site is not provided by the District. CBEs are not recognized by the NCAA for athletic eligibility purposes.

### **CBE for EOC Courses**

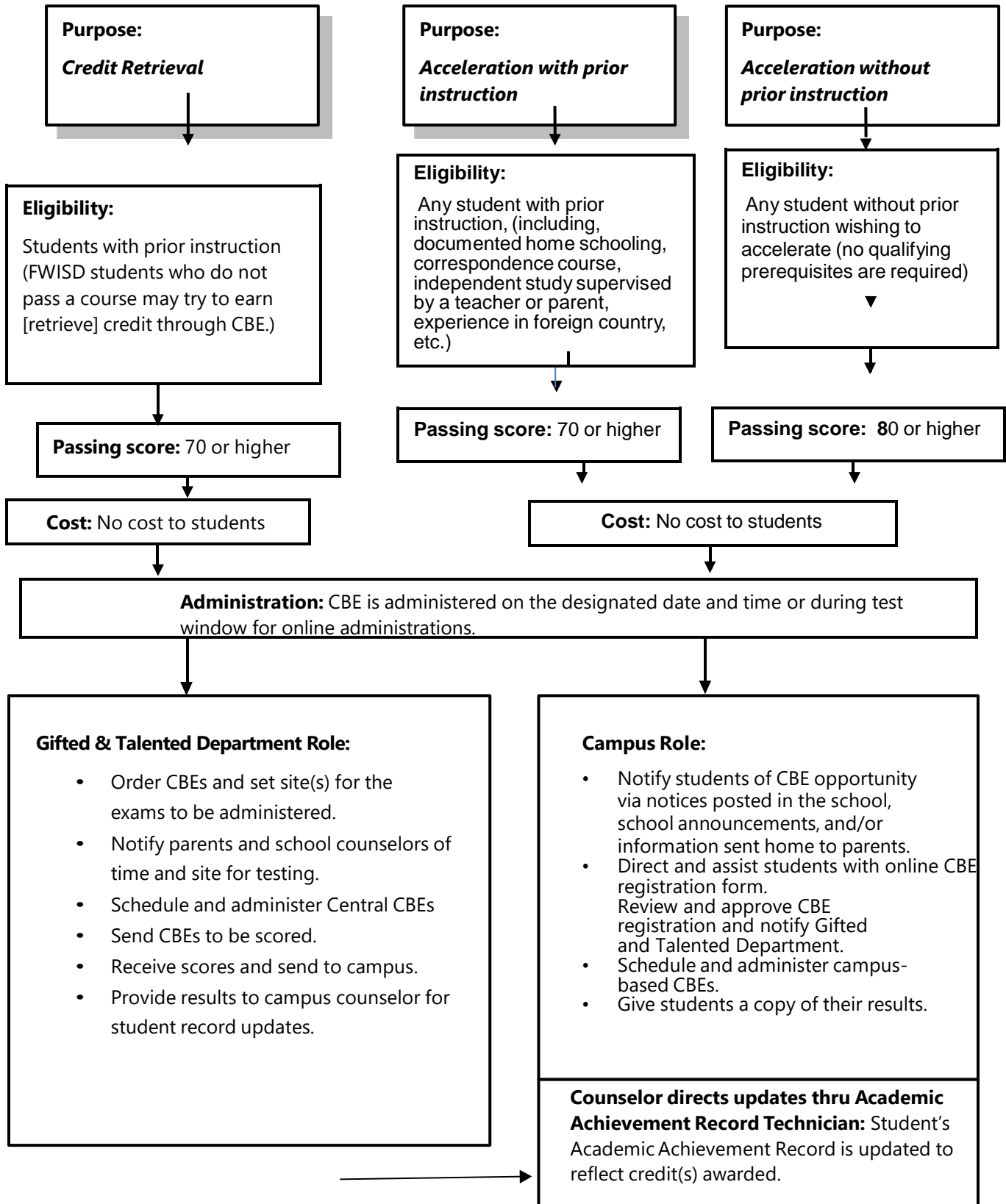
A student who has not had prior instruction in the course and passes the CBE with an 80 or higher, does not have to take the related EOC exam.

### **Procedures for Taking a CBE for Acceleration**

1. Dates for Credit by Examination (CBE) testing for acceleration are published by the Gifted and Talented Department at the beginning of the school year.
2. Individual school campuses notify students via notices posted in the school, school announcements, and/or information sent home to parents.
3. Students contact their counseling office for CBEs and to complete the FWISD *Credit by Examination Student Registration Form*. A student may take a CBE for a particular course only once during each testing cycle and a total of two times. Counselor must verify and approve registration.
4. The District's Gifted and Talented Department orders the CBEs and sets the site(s) for the examination(s) to be administered. Please note that most of the exams will be administered online.
5. Parents receive a notification letter from the Gifted and Talented Department indicating the time and place designated for in-person test administration. Students will receive an email at their FWISD student email address with instructions for testing. The school counseling office also receives the information included in the parent notification.
6. The CBE is administered on the designated date and time or during testing window for online administration.
7. The CBE is sent to be scored.
8. The CBE scores are received by the Gifted and Talented Department and are provided to the campus counseling office.
9. Students receive a copy of their CBE results.
10. Counselor works with the Campus officer, Academic Achievement Record (AAR) technician for transcript history update in cases where credit is awarded.
11. The student's transcript is updated to reflect any credit(s) awarded. The CBE test score earned shall not be used for calculation of grade point average or in determining class rank, FWISD Policies EHDB and EHDC (LOCAL). CBE test scores are coded on the student's transcript with an (E) for each examination for acceleration or a (T) to note it is for credit verification when a CBE is used for credit retrieval.

Credit by examination shall not be used to gain eligibility for participation in extracurricular activities.

## Credit-by-Examination Flowchart





## CREDIT RECOVERY

A student who fails a course may retrieve credits multiple ways within the District. A student may:

- Retake the class during the school year, or
- Retake the class in the District-approved, web-based, credit-recovery program, or
- Take an approved Credit-by-Exam, or
- Retrieve credit by taking the class in summer school.

### Credit Recovery Using District-Approved, Web-Based Credit Recovery Program

A student who fails a course may be eligible to take a course in the Web-based Curriculum Program to recover credit. In order to recover credit, a student must earn a grade of 70 or higher and complete 100% of the coursework requirements. The grade earned in the Web-based Curriculum Program will be the grade placed on the student's transcript, but will not be included in the calculation of GPA.

### GPA Impact

- The student's original failing grade will be included on the transcript and in the calculation of GPA.
- If the recovery course is passed with a minimum grade of 70, the actual grade earned on the course will be noted on the transcript.
- The grade earned in the recovery course will not be used in the calculation of GPA.

### Courses Requiring and End-of-Course Exam

- A student who fails a course requiring an EOC, but who passes the EOC exam will be offered the option of taking a Credit-by-Exam to recover course credit or enroll in a web-based curriculum program.
- A student who fails Biology or U.S. History **and** fails the related EOC exam will be required to retake one or both failed semesters in a regular classroom setting. The student must earn a 70 to earn course credit. The student must also retake the EOC exam.
- A student who fails Algebra I, English I, or English II **and** fails the related EOC exam will be able to enroll in a web-based curriculum program for that course. The student must also retake the failed EOC.

	Passed Course?	Passed EOC?	Web-Based Curriculum Program Available?
Algebra I, English I, English II, US History, Biology	No	Yes	Yes
US History, Biology	No	No	No, must retake one or both failed semesters in a regular classroom setting
Algebra I, English I, English II	No	No	Yes

### Credit Recovery Using a Credit-by-Exam (CBE)

A student can take a CBE to recover credit for a failed course. To receive credit, the student must earn a score of 70 or above. The score is recorded on the student's transcript and coded with a "T" indicating that credit is earned. The score on the CBE is not included in the calculation of GPA. The original failing grade is used in GPA calculation.

## Summary of Credit Recovery Methods

Method	Available For	Grade Needed	GPA Impact
Retake Course	A student who fails a course <b><i>This is the only option for a student who fails both the course and the EOC for Biology and US History.</i></b>	70	Original failing grade and new grade are calculated into GPA
District-approved Web-based program	A student who fails a course not requiring an EOC, or A student who fails Biology, or US History but passes the EOC, or A student enrolled in Algebra I, English I, or English II who fails both the course and the EOC	70 (in addition 100% of coursework requirements must be met)	Grade will be noted on transcript, but will not be used in the calculation of GPA
Credit-By-Exam (provided an exam is available for the course)	Any student who fails a course regardless of whether the course requires an EOC	70	Grade will be noted on transcript, but will not be used in the calculation of GPA
Summer School	Any student who fails a course	70	Grade is used in the calculation of GPA
Texas Virtual School Network, Texas Tech High School UT High School (with principal approval)	Any student who fails a course	70	Grade is not used in the calculation of GPA

# **DISTANCE LEARNING AND CORRESPONDENCE COURSES THROUGH OUTSIDE ENTITIES**

## **All Grade Levels**

Distance learning and correspondence courses include courses that encompass the state-required essential knowledge and skills but are taught through multiple technologies and alternative methodologies such as mail, satellite, Internet, video-conferencing, and instructional television.

Resident students, students temporarily residing abroad, or out-of-school youth and adults are able to earn units by taking correspondence courses from another educational institution.

If a student wishes to enroll in a correspondence course or a distance learning course that is not provided through the Texas Virtual School Network (TxVSN), as described below, in order to earn credit in a course or subject, the student must receive written permission from the principal prior to enrolling in the course or subject. If the student does not receive prior approval, the district may not recognize and apply the course or subject toward graduation requirements or subject mastery.

All courses must have been approved by the Commissioner of Education and must include the state-required essential knowledge and skills. A school counselor must supervise the program.

Grades earned in these courses are recorded on the transcript but are not used in the calculation of GPA. Students in the 12<sup>th</sup> grade should complete these courses at least 30 days prior to graduation to be eligible for graduation at the end of the term.

## **Texas Virtual School Network (TxVSN) (Secondary Grade Levels)**

The Texas Virtual School Network (TxVSN) has been established by the state as one method of distance learning. A student has the option, with certain limitations, to enroll in a course offered through the TxVSN to earn course credit for graduation.

Depending on the TxVSN course in which a student enrolls, the course may be subject to the "no pass, no play" rules. In addition, for a student who enrolls in a TxVSN course for which an end-of-course (EOC) assessment is required, the student must still take the corresponding EOC assessment. Grades earned in these courses are recorded on the transcript but are not used in the calculation of grade point average.

## DUAL CREDIT

Students may be eligible to earn college credit while they are still in high school by enrolling in dual credit courses. A variety of dual credit options are available to students. Dual credit courses may be offered at:

- Some high school campuses with the courses taught by an approved high school or college instructor;
- Tarrant County College sites through Dual Credit Academies;
- Various campus sites; Tarrant County College District and Texas Wesleyan University taught by college instructors; and
- Online dual credit

To be eligible to enroll in college courses and also be awarded credit toward state graduation requirements, a student must meet qualifications set forth by the District and the participating institutions, choose courses approved by the District, and **have the approval of the high school principal**. Post Secondary Specialist and CTE Coordinators are to provide students with current information regarding approved dual credit courses. To receive high school credit, the student must have a minimum grade of a "D" (equivalent to a 70 or higher) on an official college transcript. Grades in these dual credit courses will be used in computing the high school grade point average. Approved FWISD dual credit courses successfully completed will receive Tier I credit. For additional information regarding dual credit, talk to the Postsecondary Specialist and CTE Coordinators at each campus.

Students who take a dual credit course that substitutes for one of the required End-of-Course-Examination courses must take the corresponding STAAR EOC assessment.

Additional information regarding dual credit courses is posted on the District website under the Choice and Collegiate Programming.

### Student Eligibility and Registration

To enroll in college courses, students must meet eligibility requirements by both the District and the participating institution. The Programs of Choice and CTE coordinators will provide students with information regarding dual credit courses. Once the student has met participating institution qualifications, selected a dual credit course, completed the necessary paperwork, and received approval from the high school principal, the dual credit application will be submitted to the college or university.

The student should review the class requirements and syllabus during the first week of the dual credit course. If at this time, the student determines that it is no longer feasible for him/her to complete the dual credit course requirements, the student should immediately seek counsel regarding his/her concerns. The student should immediately make an appointment with the counselor as very prompt action may prevent dire grade consequences.

When contacted by a student who is concerned about his/her dual credit course, the counselor should advise the student of the following ramifications:

- Advise the student regarding the serious consequences of failing and/or dropping a dual credit course without following required procedures and timelines.
- Dual credit course grades are used in determining the student's Grade Point Average.
- Failure to earn at least a "D" grade (equivalent of a 70 or higher) in the dual credit course will deny the student high school equivalent credit for the designated high school course.
- Failure of credit for the high school equivalent to the dual credit may cause the student to fail to meet the course graduation requirement.

## Timeline for Dropping Dual Credit Course

### FWISD Timelines

If the student has made the decision to drop the dual credit course on or before the college drop deadline, the Postsecondary Specialist will work with the high school counselor to schedule the student into the appropriate high school course or high school credit retrieval program. The student will immediately begin attending the high school class with his/her current dual credit grade.

### University Timelines

The student must immediately notify the university personnel and follow the required university procedures for dropping a dual credit course.

Each university has its own unique timeline for course withdrawal without a penalty.

Failure to contact the university and failure to follow required procedures could result in a failing grade at the university resulting in placement of the student on scholastic probation upon his/her return to the university.

## Performance Acknowledgements for Dual Credit Courses

*Dual credit courses approved by FWISD are the only college courses that may be used as college courses to count as Performance Acknowledgements in the Foundation High School Program.* To qualify for this performance acknowledgement, a student must earn a 3.0 grade in a district approved college dual credit course as specified in 19 TAC 74 F(d) (3). These courses shall provide advanced academic instruction beyond or in greater depth than the related FWISD courses.

## Student Calendars

FWISD and college calendars may differ. The college calendar predominates; i.e., if the college is in session, students may need to attend college classes even during FWISD holidays and breaks.

## Dual Credit Grades and Weighted Grade Points

The teacher of record for all Dual Credit courses will be noted as the campus Post Secondary Specialist unless taught by a credentialed FWISD instructor. In that case, it will be the credentialed FWISD instructor. Dual Credit grades for FWISD students participating in the Dual Credit Academy will be reported by the instructors to the FWISD Dual Credit Coordinator at the end of each semester for verification and then sent to the campus Post Secondary specialist . The campus data clerk will process these grades.

A student who takes approved FWISD Dual Credit courses on his/her own must bring an official college or university transcript to his/her campus once the course has been completed. Students must have the approval of their principal and campus Postsecondary Specialist prior to taking a Dual Credit course on their own. The campus will record the student's official final grade on the student's Academic Achievement Record. A minimum grade of "D" (equivalent of a 70 or higher) on an official transcript is needed for award of credit. **Grades in dual credit courses will be used in computing the high school grade point average. To be included in Core GPA, the course must be listed as one that is eligible for inclusion in Core GPA.** Approved FWISD dual credit courses successfully completed will receive weighted credit. **Failure of a required course may endanger graduation. Students are responsible for contacting the college for admission, tuition, fees and financial aid.**

## Dual Credit and University Interscholastic League (UIL) Eligibility

Dual credit courses are listed by the State Board of Education as being included in the list of advanced classes identified for no pass, no play exemptions for UIL competitions in the areas of English Language Arts, Mathematics, Science, Social Studies, Economics and Languages Other than English/World Languages. By law a grade less than 70 in any of these classes does not affect a student's eligibility. In addition, House Bill 208 that is effective school year 2007-2008 states: "A student otherwise eligible to participate in an extracurricular or UIL activity is not ineligible because the student is enrolled in dual credit or concurrent enrollment courses, regardless of the location at which the course is provided."

## CONCURRENT ENROLLMENT

Concurrent credit courses are college courses taken by a student and not associated with the high school or the high school curriculum. Successful completion of the course results in college credit only that will not count as fulfilling any of the high school graduation requirements.

## CONCURRENT ENROLLMENT – ONRAMPS UT AUSTIN PROGRAM

OnRamps is a dual-enrollment program that bring rigorous courses aligned with the high standards and expectations of the University of Texas at Austin. The program uses a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher. Dual-enrollment through UT OnRamps allows students to earn college credit while in high school and is different from Dual Credit. OnRamps courses will transfer to any public college or university.

- The OnRamps Dual Enrollment Program allows high school students to experience college academic rigor by taking actual college exams created by a UT professor.
- Dual enrollment students receive two grades: one from the high school teacher and one from the UT professor; dual credit students receive the same grade earned in high school on their college transcripts.
- Dual enrollment students may *choose* to have the college grade transcribed on their UT transcripts; Dual credit students' grades *will* be recorded on the college transcripts.
- Conferred credit in a TSI required course, like math or English, is a TSIA exemption in that area. So, for RHE and HIST, the student will receive an exemption for ELAR; for College Algebra, Statistics, and Precalculus, the student will receive an exemption in math. In most cases, the CS and AET courses do not yield a TSIA exemptions. This is dependent on the institution. <https://tea.texas.gov/academics/college-career-and-military-prep/the-tsia-texas-success-initiative-assessment>

FWISD will offer the following OnRamps courses:

<b>Mathematics</b>	<b>Science</b>	<b>Social Studies</b>	<b>English Language Arts</b>
<ul style="list-style-type: none"> <li>• OnRamps Precalculus</li> <li>• OnRamps Statistics</li> <li>• OnRamps College Algebra</li> </ul>	<ul style="list-style-type: none"> <li>• OnRamps Physics I</li> <li>• OnRamps Physics II</li> <li>• OnRamps Chemistry I</li> <li>• OnRamps Chemistry II</li> <li>• OnRamps Biology</li> <li>• OnRamps Earth &amp; Space Science</li> <li>• OnRamps Quantum Computing</li> </ul>	<ul style="list-style-type: none"> <li>• OnRamps United States History</li> </ul>	<ul style="list-style-type: none"> <li>• OnRamps Rhetoric &amp; Writing</li> </ul>

<b>Computer Science</b>	<b>Fine Arts</b>
<ul style="list-style-type: none"> <li>• OnRamps Computer Science</li> </ul>	<ul style="list-style-type: none"> <li>• OnRamps Art IV: Arts and Entertainment Technologies</li> </ul>

## EARNING COURSE CREDIT

### Middle School Courses

A middle school student advances to the next grade if the student has an overall average of 70 on all subject areas and a grade of 70 or above in three of the following areas: language arts, mathematics, science, and social studies.

### High School Courses

A student in grades 9 – 12, or in a lower grade when a student is enrolled in a high school credit-bearing course, will earn credit for a course only if the final grade is 70 or above.

Beginning with the 2018 – 2019 school year, if a student passes one semester and fails the other semester of a two-semester course, the student will receive credit for both semesters if the combined average of the two semesters is 70 or higher. If the combined average of the two semesters is not at least a 70, the student will only receive credit for the semester with a 70 or higher. ***The grades must be earned in the same school year. A school year is defined as the fall semester, spring semester, and summer semester.***

Semester 1	Semester 2	Average	Credit Earned	EOC Course	Options to Regain Credit
Pass (80)	Fail (68)	Pass (74)	1.0 for the full year	Pass	N/A
Pass (70)	Fail (68)	Fail (69)	0.5 credit for first semester only	Fail	Retake second semester and the EOC (web-based curriculum may be used for certain math and English courses)
Fail (68)	Pass (80)	Pass (74)	1.0 credit for full year	Fail	Retake EOC exam
Fail (68)	Pass (70)	Fail (69)	0.5 credit for second semester only	<i>Not an EOC Course</i>	Web-based curriculum program, <i>Credit By Exam</i> , or retake first semester

## LOTE High School Courses Taken in Middle School

A middle school LOTE course is taken over four semesters to earn one high school credit. Successful completion of the course will earn the student one credit. A half-credit is not awarded for LOTE courses taken in middle school.

Successful completion of the first half of the course (7<sup>th</sup> grade) is a prerequisite for placement into the second half in 8<sup>th</sup> grade.

	Grade 7		Average	Grade 8		Average	Average for Both Years	Credit Or No Credit
	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	7 <sup>th</sup> Grade Yearly Average	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	8 <sup>th</sup> Grade Yearly Average	7 <sup>th</sup> & 8 <sup>th</sup> Grade Average	
	60	63	61.5 = 62	70	65	67.5 = 68	65	No Credit
<b>A</b>			Failed 1 <sup>st</sup> Year			Failed 2 <sup>nd</sup> Year	Average below 70	
	70	75	72.5=73	70	65	67.5=68	70.25=70	1 credit
<b>*B</b>			Passed 1 <sup>st</sup> year			Failed 2 <sup>nd</sup> year	Average 70	
	68	70	69	70	80	75	72	1 Credit
<b>*C</b>			Failed 1 <sup>st</sup> yr.			Passed 2 <sup>nd</sup> year	Average 72	
The technology used for the grading system rounds up a grade of .5 or above to the next whole number each time six weeks grades are posted.								

\*Half credit is not awarded in LOTE in middle school. Credit may be retrieved by taking a summer school course or by using an approved Credit-By-Examination.

## END-OF-COURSE (EOC) ASSESSMENTS

[See **Graduation** and **Standardized Testing** for more information.]



## EMERGENT BILINGUAL STUDENTS

An emergent bilingual student is entitled to receive special services from the district. Upon initial enrollment in any Texas district, parents are asked to complete a Home Language Survey. This survey asks questions about language use in the home by the family and the student. If any of the responses on the survey indicate a language other than English, the student is assessed to determine the level of English proficiency.

In FWISD, these initial English language proficiency assessments are usually administered at the Student Placement Center. The staff is trained in administering the state-approved language proficiency assessments.

If the student speaks any language other than English, an assessment is administered to determine the level of proficiency in English. If an elementary student is a Spanish-speaker, a Spanish language proficiency assessment is administered to help the school determine appropriate placement in the Dual Language program.

If a student qualifies for special language support programs, the Student Placement Center makes program recommendations, which are then sent to the campus Language Proficiency Assessment Committee or LPAC. The campus LPAC reviews the recommendations and assessment information from the Student Placement Center and makes the final program placement decision along with any linguistic accommodations needed for daily instruction and state-mandated assessment.

Students identified as Newcomer are determined to have less than three years in U.S. schools. Most Newcomer students possess beginning- or intermediate-level English-speaking proficiency levels. Newcomer students may be scheduled into Newcomer Programs (NP). These include International Newcomer Academy and Success High School as well as Language Centers at various middle and high schools.

In these programs, students take ESL or ELLA (if middle school) and EngSOL I and II (if high school) as well as “sheltered” core area classes. At middle school, ELLA 7 may be substituted for English Language Arts & Reading, Grade 7; ELLA 8 may be substituted for English Language Arts & Reading, Grade 8. The ELLA courses must be paired (double-blocked) with an ESL-Lab course. At high school, the two EngSOL credits may substitute for English I and English II credits. ESOL I or ESOL 2 must be paired (double-blocked) with the English Language Development & Acquisition (ELDA) course. ESOL 1 must be paired with ELDA 1, while ESOL 2 must be paired with ELDA 2. Students completing the Newcomer Program are moved to ESL programs in middle school or to sheltered English programs in high school.

High school emergent bilingual students with more than 3 years in U.S. schools are generally in the advanced or advanced-high levels of English language proficiency. They are to be placed in sheltered English classes. Middle school advanced or advanced-high students must be served in ESL programs. See the chart below for the recommended EngSOL/English course sequence for high school. More specific course information is found in the emergent bilingual course section of this Bulletin.

<b>Recommended High School ESOL/English</b>				
	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<i>EB students at beginning/intermediate level of English language proficiency (Newcomer Program)</i>	English SOL NP I	English SOL NP II	English III	English IV
	ELDA 1	ELDA 2		Sheltered Reading LC III-ESL*
		Prof. Comm. or Comm. App. – ESL		
		Practical Writing-ESL		
<i>EB students at advanced/advanced high level of English language proficiency</i>	Sheltered English I	Sheltered English II	Sheltered English III	English IV
	Sheltered Reading I	Sheltered Reading II		Sheltered Reading III

**Emergent bilingual students (EBs) enrolled in English I or II for Speakers of Other Languages courses are required to take the STAAR English I and II assessments**

Parent permission must be secured before any language support services can be provided. The LPAC will also determine whether certain accommodations are necessary for any state-mandated assessments.

The Texas English Language Proficiency Assessment System (TELPAS) will also be administered to emergent bilinguals who qualify for services.

If a student is considered an emergent bilingual and receives special education services because of a qualifying disability, the student’s ARD committee will make instructional and assessment decisions in conjunction with the LPAC.

## **FOREIGN STUDY PROGRAM**

The FWISD does not officially sponsor any foreign travel experiences for students. However, teachers may work with independent student travel companies to provide language and culture opportunities for students. The Director of World Languages may recommend such companies that are known to be reputable.

Foreign exchange students who enroll in the district will not be included in a high school’s class rankings or graduation, except when a transcript reflects successful completion of all required credits for graduation and End-of-Course exams.

## **GRADE-LEVEL CLASSIFICATION (Grades 9–12 Only)**

After the ninth grade, students are classified according to the number of credits earned toward graduation. The following charts display the credits needed for classification and spring reclassification. Only courses counting toward state graduation credits are included; local credit courses do not count.

Reclassification occurs before the beginning of each school year, and in some special cases, at other times for state testing purposes or early graduation requirements.

<b>Fort Worth ISD Grade Classification Foundation Plan with Endorsement</b>		
<b>All require 26 credits for Graduation</b>		
	Grade Level Classification	Required State Course Credits Earned
Foundation with an Endorsement	9 – Freshman	0 credits
	10 – Sophomore	6 credits
	11 – Junior	12 credits
	12 – Senior	19 credits
Foundation Without an Endorsement	12 – Senior	15 credits
	22 credits required for MSHP Graduation and for FHSP Graduation w/out an Endorsement	

The chart below is for:

- Students who have repeated a grade level and have earned the required course credits for **spring semester** reclassification; or
- Seniors who are on the Foundation High School Plan (FHSP) without an endorsement.

This grade reclassification will allow senior students to be included in senior meetings to receive relevant information needed to complete senior year activities and responsibilities. Check with the Counseling Office for the deadline for grade level reclassification.

<b>Fort Worth ISD Grade Reclassification – Spring Semester</b>	
Grade Level Classification	Required State Course Credits Earned
9 – Freshman (repeaters)	8 credits
10 – Sophomore (repeaters)	15 credits
11 – Junior (repeaters)	22.5 credits
12 – Senior MHSP (minimum plan) or FHSP w/o an endorsement 22 credits required	18.5 credits

Students currently enrolled in high school who have not earned the required credits needed to be on grade level and who have not been officially permitted in the Foundation High School Plan without an endorsement are to meet with their counselor to determine the various ways they may schedule courses to make up the needed graduation credits.

### **Junior – Senior Reclassification during the Sixth Six-Weeks**

If a repeat 11<sup>th</sup> grade student, who did not have enough credits to be classified as a 12<sup>th</sup> grade student at semester, has earned the credits during the spring semester to still graduate in June, then the student will need to be reclassified to the 12<sup>th</sup> grade during the 6<sup>th</sup> six-weeks. This will allow the student to be included in the final graduation class total and receive a transcript marked as a 12<sup>th</sup> grade student. A grade change form will need to be completed and submitted to the data clerk for entry by the end of the 3<sup>rd</sup> week of the 6<sup>th</sup> six-weeks.

## **GRADING GUIDELINES (All Grade Levels)**

Grading guidelines will be distributed to each campus prior to the start of the school year. The guidelines for each grade level or course will be communicated and distributed to students and their parents by the classroom teacher. These guidelines establish the minimum number of assignments, projects, and examinations required for each grading period. In addition, these guidelines establish how the student’s mastery of concepts and achievement will be communicated (i.e., letter grades, numerical averages, checklist of required skills, etc.). Grading guidelines also outline in what circumstances a student will be allowed to redo an assignment or retake an examination for which the student originally made a failing grade. Procedures for a student to follow after an absence will also be addressed.

# GRADUATION

## Requirements for a Diploma Beginning with the 2014–15 School Year

Beginning with students who entered grade 9 in the 2014–15 school year, a student must meet the following requirements to receive a high school diploma from the district:

- Complete the required number of credits established by the state and any additional credits required by the district;
- Complete any locally required courses in addition to the courses mandated by the state;
- Achieve passing scores on certain end-of-course (EOC) assessments or approved substitute assessments, unless specifically waived as permitted by state law; and
- Demonstrate proficiency, as determined by the district, in the specific communication skills required by the State Board of Education (SBOE).
- Receive instruction in Cardiopulmonary Resuscitation (CPR)
- Receive instruction on proper interaction with a peace officer during traffic stops and other in-person encounters.
- Complete and submit a Free Application for Federal Student Aid (FAFSA) or TASFA form.

## Testing Requirements for Graduation

Students are required, with limited exceptions and regardless of graduation program, to perform satisfactorily on the following EOC assessments: English I, English II, Algebra I, Biology, and U.S. History. A student who has not achieved sufficient scores on the EOC assessments to graduate will have opportunities to retake the assessments.

If a student fails to perform satisfactorily on an EOC assessment, the district will provide remediation to the student in the content area for which the performance standard was not met. This may require participation of the student before, after normal school hours, or at times of the year outside normal school operations.

In limited circumstances, a student who fails to demonstrate proficiency on two or fewer of the required assessments may still be eligible to graduate if an individual graduation committee, formed in accordance with state law, unanimously determines that the student is eligible to graduate.

[Also, see **Standardized Testing** for more information.]

## 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.

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 anticipates 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.

Endorsements are made up of at least four to five credits taken in a coherent sequence providing advanced or more in-depth knowledge and skills in a curriculum area. In Social Studies Arts and Humanities endorsements five social studies credits are required. A student may earn an endorsement by successfully completing:

- Curriculum requirements for the endorsement;
- Four credits in mathematics
- Four credits in science
- Two additional elective credits

Courses needed to satisfy an endorsement may also be used to satisfy foundation course requirements. Students may enroll in courses under more than one endorsement before the student’s junior year.

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 exam, on certain national college preparatory and readiness or college entrance exams, 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.

## Required Courses for Each Graduation Plan

	<b>Foundation Program 22 Credits</b>	<b>Foundation + Endorsements 26 Credits</b>	<b>Distinguished Level of Achievement (Recommended for All students) 26 Credits</b>
<b>ELA 4 Credits</b>	<ul style="list-style-type: none"> <li>English I</li> <li>English II</li> <li>English III</li> <li>One advanced English course</li> </ul>	<ul style="list-style-type: none"> <li>English I</li> <li>English II</li> <li>English III</li> <li>One advanced English course</li> </ul>	<ul style="list-style-type: none"> <li>English I</li> <li>English II</li> <li>English III</li> <li>One advanced English course</li> </ul>
<b>MATH 3 – 4 Credits</b>	<ul style="list-style-type: none"> <li>Algebra I</li> <li>Geometry</li> <li>Additional math course</li> </ul>	<ul style="list-style-type: none"> <li>Algebra I</li> <li>Geometry</li> <li>Additional math course</li> <li>Additional math course toward Endorsement</li> </ul>	<ul style="list-style-type: none"> <li>Algebra I</li> <li>Geometry</li> <li>Algebra II *</li> <li>Additional math course toward Endorsement</li> </ul>
<b>SCIENCE 3 – 4 Credits</b>	<ul style="list-style-type: none"> <li>Biology</li> <li>IPC or Chemistry or Physics</li> <li>Additional science course</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> <li>IPC or Chemistry or Physics</li> <li>Additional science course</li> <li>Additional science course toward Endorsement</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> <li>IPC or Chemistry or Physics</li> <li>Additional science course</li> <li>Additional science course toward Endorsement</li> </ul>
<b>SOC STUD 4 Credits</b>	<ul style="list-style-type: none"> <li>World/Human Geography</li> <li>World History/Ethnic Studies</li> <li>US History</li> <li>Government &amp; Economics</li> </ul>	<ul style="list-style-type: none"> <li>World/Human Geography</li> <li>World History/Ethnic Studies</li> <li>US History</li> <li>Government &amp; Economics</li> </ul>	<ul style="list-style-type: none"> <li>World/Human Geography</li> <li>World History/Ethnic Studies</li> <li>US History</li> <li>Government &amp; Economics</li> </ul>
<b>NON-CORE 8 – 10 Credits</b>	<ul style="list-style-type: none"> <li>2 credits, World Language ***</li> <li>1 credit, Physical Education **</li> <li>1 credit, Fine Arts</li> <li>0.5 credit, Health</li> <li>0.5 credit, Speech</li> <li>3 credits, Electives</li> </ul>	<ul style="list-style-type: none"> <li>2 credits, World Language ***</li> <li>1 credit, Physical Education **</li> <li>1 credit, Fine Arts</li> <li>0.5 credit, Health</li> <li>0.5 credit, Speech</li> <li>5 credits, Electives</li> </ul>	<ul style="list-style-type: none"> <li>2 credits, World Language ***</li> <li>1 credit, Physical Education **</li> <li>1 credit, Fine Arts</li> <li>0.5 credit, Health</li> <li>0.5 credit, Speech</li> <li>5 credits, Electives</li> </ul>

<p><u>Available Endorsements****:</u></p> <p>Science, Technology, Engineering, and Mathematics</p> <p>Business and Industry</p> <p>Public Services</p> <p>Arts and Humanities</p> <p>Multidisciplinary Studies</p>
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\* In order to obtain the distinguished level of achievement under the foundation graduation program, which will be denoted on a student's transcript and is a requirement to be considered for automatic admission purposes to a Texas four-year college or university, a student must complete an endorsement and take Algebra II as one of the 4 mathematics credits.

\*\* A student who is unable to participate in physical activity due to a disability or illness may be able to substitute a course in English language arts, mathematics, science, social studies, or another locally determined credit-bearing course for the required credit of physical education. This determination will be made by the student's ARD committee, Section 504 committee, or other campus committee, as applicable.

\*\*\* Students are required to earn two credits in the same language other than English to graduate. Any student may substitute approved computer-programming languages for these credits. 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.

\*\*\*\* A student must specify upon entering grade 9 the endorsement he or she wishes to pursue.

**FWISD/Texas Graduation Requirements: Foundation High School Program for Students Entering Grade 9 in 2014-2015 and Thereafter**

**Foundation Courses Required = 22 plus 4 for an Endorsement = 26 credits for graduation. Each Endorsement is to consist of a coherent sequence of courses totaling 4 to 5 credits.**

English (4 Credits)	Mathematics (3 credits; 4 credits for endorsement)	Science (3 credits; 4 credits for endorsement)
<p><b>Three of the credits must consist of: English I, II, and III</b></p> <p>(May substitute AP Language &amp; Composition, AP Literature &amp; Composition, OnRamps English, or Dual Credit English Composition for English III)</p> <p>Students with limited English proficiency who are at the beginning or intermediate level of English language proficiency may satisfy the English I and II requirements by successfully completing English I and II for Speakers of Other Languages</p> <p><b>The 4<sup>th</sup> credit</b> may be selected from 1 full credit or a combination of 2 half credits from 2 different courses, subject to prerequisite requirements:</p> <p>English IV Humanities AP Language and Composition AP Literature and Composition OnRamps English Business English College Preparatory English (Integrated Reading &amp; Writing) Texas College Bridge English Eligible Dual Credit English substitutions*</p> <p><i>*See the English section for a complete list of Dual Credit Substitutions.</i></p>	<p><b>Two of the credits must include: Algebra I &amp; Geometry</b></p> <p>The additional credit may be selected from 1 full credit or a combination of 2 half credits from 2 different courses, subject to prerequisites from this list <b>OR</b> from the fourth credit list further below.</p> <p>Mathematical Models w/Applications Mathematical Applications in Agriculture, Food, and Natural Resources; Digital Electronics; Financial Mathematics; Applied Mathematics for Technical Professionals; Accounting II Manufacturing Engineering Technology II; Robotics II</p> <p><b>Four math credits are required for an endorsement. Algebra II is required for the Distinguished Level of Achievement</b></p> <p>The additional credit may be selected from 1 full credit or a combination of 2 half credits from 2 different courses, subject to prerequisites:</p> <p>Algebra II Precalculus Advanced Quantitative Reasoning Independent Study in Mathematics Discrete Math for Problem Solving Algebraic Reasoning Statistics AP Computer Science A Engineering Mathematics Statistics &amp; Business Decision Making Mathematics for Medical Professionals Discrete Math for Computer Science AP Statistics AP Calculus AB AP Calculus BC College Preparatory Math Texas College Bridge Math OnRamps PreCalculus OnRamps Statistics OnRamps College Algebra Eligible Dual Credit math substitutions*</p> <p><i>*See the Math section for a complete list of Dual Credit Substitutions.</i></p>	<p><b>Three of the credits to include:</b></p> <p><b>One Biology credit:</b> Biology, AP Biology, or IB Biology</p> <p><b>One credit to be selected from the following laboratory-based courses:</b> Integrated Physics &amp; Chemistry; Chemistry, AP Chemistry, IB Chemistry, OnRamps Chemistry, or Dual Credit Chemistry; Physics, OnRamps Physics, AP Physics I, IB Physics, or Dual Credit Physics; Principles of Technology</p> <p><b>Four science credits are required for an Endorsement.</b></p> <p>The additional credit may be selected from 1 full credit or a combination of 2 half credits from 2 different courses, subject to prerequisites:</p> <p>Chemistry Physics Aquatic Science Astronomy Earth Systems Science Environmental Systems Specialized Topics in Science Advanced Animal Science Advanced Plant and Soil Science Anatomy &amp; Physiology Medical Microbiology Pathophysiology Food Science Forensic Science Biotechnology I and II Principles of Technology Scientific Research &amp; Design Engineering Design &amp; Problem Solving Engineering Science AP Biology AP Chemistry AP Physics I AP Physics 2 AP Physics C –Mechanics AP Physics C – E&amp;M AP Environmental Science OnRamps Physics, OnRamps Physics II OnRamps Chemistry I, OnRamps Chemistry II OnRamps Biology, OnRamps Earth &amp; Space Science Dual Credit science courses*</p> <p><i>*See the Science section for a complete list of Dual Credit Substitutions.</i></p>

**FWISD/Texas Graduation Requirements: Foundation High School Program for Students Entering Grade 9 in 2014-2015 and Thereafter**

**Foundation Courses Required = 22 plus 4 for an Endorsement = 26 credits for graduation  
Each Endorsement is to consist of a coherent sequence of courses totaling 4 to 5 credits**

<p align="center"><b>Social Studies (4 Credits)</b></p> <p><b>Must consist of:</b></p> <p><b>3 credits of the following:</b> World Geography Studies OR AP Human Geography OR Dual Credit World Geography</p> <p>U.S. History Studies Since 1877 OR AP U.S. History OR Dual Credit US History OR OnRamps US History OR IB History of the Americas, Year 1</p> <p>U.S. Government OR AP U.S. Government OR Dual Credit U.S. Government (1/2 credit)</p> <p>Economics OR AP Microeconomics OR AP Macroeconomics OR Dual Credit Economics (1/2 credit) OR Personal Financial Literacy/Economics</p> <p><b>1 credit selected from the following:</b></p> <p>World History OR AP Modern World History OR Dual Credit World History OR</p> <p>Ethnic Studies course pairing STSS: African and African-American Perspectives and Historical Contributions (.5 credits) AND STSS: Latino/a Studies (.5 credits)</p>	<p align="center"><b>Languages Other Than English (LOTE)</b> <b>2 credits</b></p> <p><b>The credits may be selected from:</b> Any two levels in the same language; or Two credits in computer programming languages selected from Computer Science I, II, and III, AP Computer Principles, or AP Computer Science A, IB Computer Science Standard Level and IB Computer Science Higher Level;</p> <p><b>If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, the student may substitute another appropriate course as follows:</b></p> <ul style="list-style-type: none"> <li>• Special Topics in Language and Culture</li> <li>• Another credit selected from a different LOTE</li> <li>• Computer programming languages from the list noted above, including computer coding</li> </ul> <p>The determination regarding a student's ability to complete the second credit of LOTE must be agreed by:</p> <ul style="list-style-type: none"> <li>• The teacher of the first LOTE course, the principal or designee, and the student's parent;</li> <li>• The ARD or 504 committee, if applicable</li> </ul> <p>A student, who due to a disability, is unable to complete 2 credits in the same LOTE, may substitute a combination of 2 credits from ELA, math, science or social studies (can be from 1 area or 2 areas) or 2 credits in CTE or technology applications for the LOTE requirement. (Cannot combine a credit from the ELA, math, science, and social studies areas with a credit from the CTE/technology applications area)</p> <p>The determination regarding the student's ability to complete the LOTE requirement will be made by the ARD or 504 committee, as applicable.</p>	<p align="center"><b>Fine Arts (1 credit)</b></p> <p><b>Credit may be from the following courses:</b></p> <p>Art, Level I, II, III, or IV; Dance, Level I, II, III, or IV; Music, Level I, II, III, or IV; Music Studies Theatre, Level I, II, III, or IV; Musical Theatre, Level I, II, III, or IV; Technical Theatre, Level I, II, III, or IV; Floral Design; Digital Art and Animation 3-D Modeling and Animation</p> <p><b>See the Fine Arts section for a complete list of all courses that fall into each of the above categories.</b></p>
<p align="center"><b>Physical Education (1 Credit)</b></p> <p>May be selected from the following: PE courses; or PE substitutions; or District-Approved Off Campus Programs; or Approved Dual Credit PE Courses</p>	<p align="center"><b>Health (0.5 Credit) FWISD Requirement</b></p> <p>May be selected from the following: Health (0.5 credit) or Principles of Health Science (1 credit) or Honors Principles of Health Science or Approved Dual Credit Health Course</p>	<p align="center"><b>Speech (0.5 Credit) FWISD Requirement</b></p> <p>May be selected from the following: Communications Applications; Professional Communications; Debate I (or Honors) Public Speaking Independent Study in Speech or Approved Dual Credit Speech</p>
<p><b>Elective Credits may be selected from:</b> State approved TEKS courses for grades 9 – 12; State approved innovative courses (these courses only meet elective requirements and will not meet state specific named course requirements); Junior Reserve Officer Training Corp (1 – 4 credits); or Reading I, II, and III based on assessed individual needs (up to 3 credits)</p>		



## Endorsement Requirements

<p>SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM)</p>	<p>Includes courses directly related to:</p> <ul style="list-style-type: none"> <li>• Science, including environmental science</li> <li>• Technology, including computer science</li> <li>• Engineering</li> <li>• Math</li> </ul>	<p>Must complete Algebra II, Chemistry, and Physics or Principles of Technology, and one of the following:</p> <ol style="list-style-type: none"> <li>1. A coherent sequence of courses for 4 or more credits in CTE that consists of at least 2 courses in the same career cluster and at least 1 advanced CTE course. The final course in the sequence must be selected from the STEM career cluster or Career Preparation I or II and Project-Based Research; or</li> <li>2. Courses required to complete a TEA-designated program of study related to STEM; or</li> <li>3. A total of 5 credits in Math by successfully completing Algebra I, Geometry, Algebra II, and 2 additional Math courses for which Algebra II is a prerequisite.</li> <li>4. A total of 5 credits in science by successfully completing biology, chemistry, physics, and 2 additional Science courses.</li> <li>5. In addition to Algebra II, Chemistry, and Physics, a coherent sequence of 3 additional credits from no more than two of the three areas listed in 1, 2, 3, and 4 above.</li> </ol>
<p>BUSINESS AND INDUSTRY</p>	<p>Includes courses directly related to:</p> <ul style="list-style-type: none"> <li>• Agriculture, Food, &amp; Natural Resources</li> <li>• Architecture &amp; Construction</li> <li>• Arts, Audio/Video Technology, &amp; Communications</li> <li>• Business Management &amp; Administration</li> <li>• Finance</li> <li>• Hospitality &amp; Tourism</li> <li>• Information Technology</li> <li>• Manufacturing</li> <li>• Marketing</li> <li>• Transportation, Distribution, &amp; Logistics</li> <li>• Energy</li> <li>• Career Prep I or II and Project-Based Research</li> </ul>	<p>Must complete one of the following:</p> <ol style="list-style-type: none"> <li>1. Coherent sequence of courses for 4 or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The final course in the sequence must be selected from one of the courses listed to the left; or</li> <li>2. Four English elective credits by selecting three levels in one of the following areas: <ul style="list-style-type: none"> <li>• Advanced Broadcast Journalism</li> <li>• Advanced Journalism: Newspaper</li> <li>• Advanced Journalism: Yearbook</li> <li>• Advanced Journalism: Literary Magazine</li> <li>• Debate</li> <li>• Public Speaking; or</li> </ul> </li> <li>3. Courses required to complete a TEA-designated program of study related to business and industry; or</li> <li>4. Coherent sequence of four credits from 1, 2, or 3.</li> </ol>

PUBLIC SERVICE	<p>Includes courses directly related to:</p> <ul style="list-style-type: none"> <li>• Education &amp; Training</li> <li>• Health Sciences</li> <li>• Human Services</li> <li>• Law, Public Safety, Corrections &amp; Security</li> <li>• Career Prep I or II and Project-Based Research</li> </ul>	<p>Must complete one of the following:</p> <ol style="list-style-type: none"> <li>1. Coherent sequence of courses for 4 or more credits in CTE that consists of at least two courses in the same cluster and at least one advanced CTE course. The final course in the sequence must be selected from one of the courses listed to the left; or</li> <li>2. Four courses in JROTC; or</li> <li>3. Courses required to complete a TEA-designated program of study related to public services.</li> </ol>
ARTS & HUMANITIES	<p>Includes courses directly related to:</p> <ul style="list-style-type: none"> <li>• Cultural studies</li> <li>• English Literature</li> <li>• Fine arts</li> <li>• History</li> <li>• Political science</li> <li>• World languages</li> </ul>	<p>Must complete one of the following:</p> <ol style="list-style-type: none"> <li>1. Total of 5 social studies credits; or</li> <li>2. Four levels of the same language in language other than English (LOTE); or</li> <li>3. Two levels of the same language in LOTE and two levels of a different language in LOTE; or</li> <li>4. Four levels of American Sign Language; or</li> <li>5. Coherent sequence of 4 credits by selecting courses from 1 or 2 categories or disciplines in fine arts or innovative courses approved by the commissioner; or</li> <li>6. Four English elective credits by selecting from the following: <ul style="list-style-type: none"> <li>• English IV</li> <li>• Independent Study in English</li> <li>• Literary Genres</li> <li>• Creative Writing</li> <li>• Research &amp; Technical Writing</li> <li>• Humanities</li> <li>• Communication Applications</li> <li>• AP English Literature &amp; Composition</li> <li>• AP English Language &amp; Composition</li> </ul> </li> </ol>
MULTIDISCIPLINARY	<p>Allows a student to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement</p>	<p>Must complete one of the following:</p> <ol style="list-style-type: none"> <li>1. Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence; or</li> <li>2. Four credits in each of the four foundation subject areas to include Chemistry and/or Physics and English IV or a comparable AP or IB English course; or</li> <li>3. Four credits in Advanced Placement or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts.</li> </ol>

**STEM Endorsement Samples**

**With different focuses: Mathematics, Science, (Technology example in CTE charts)**

<b>Mathematics Focus</b>					
<b>Science, Technology, Engineering and Mathematics (STEM) Endorsement</b> including four courses/credits in mathematics by successfully completing <b>Algebra II, and three more course/credits</b> for which Algebra II is a prerequisite. See some course suggestions in the chart below.					
Grade Levels may vary	Course #s	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
		Algebra II	1.0	<i>Yes, if the student earns <b>3 or higher</b> on the AP examination. Also see dual credit criteria</i>	<i>Meets the requirement of one STEM Endorsement. See all criteria needed to complete Distinguished Level of Achievement.</i>
	7121	Pre-Calculus	1.0		
	7145	AP Statistics	1.0		
	7123	Honors Pre-Calculus	1.0		
	7124	AP Calculus AB	1.0		
	7126	AP Calculus BC	1.0		
		<b>Total Credits Needed</b>	<b>4.0</b>		

<b>Science Focus</b>					
<b>Science, Technology, Engineering and Mathematics (STEM) Endorsement</b> including four courses/credits in science by successfully completing <b>physics and three additional science course/credits</b> . See some course suggestions in the chart below.					
Grade Levels may vary	Course #s	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
	7625	AP Physics 1	1.0	<i>Yes, if the student earns a <b>3 or higher</b> on the AP examination. Also see dual credit Criteria.</i>	<i>Meets the requirement of one STEM Endorsement. See all criteria needed to complete Distinguished Level of Achievement.</i>
	7627	AP Physics 2	1.0		
	7628	AP Physics C: Mechanics	1.0		
	7618	AP Physics C: Elec /Mag	1.0		
	7610	AP Chemistry	1.0		
		Dual Credit substitutions	1.0		
		<b>Total Credits Needed</b>	<b>4.0</b>		

## Arts & Humanities Endorsement Samples

### Fine Arts Endorsement Course Sequence Samples

<b>Art Endorsement</b> with <b>English IV</b> and <b>four</b> (courses/credits): See some course suggestions in the chart below. AP courses may be available at various campuses.					
Grade Levels	Course #s... a variety qualify	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
9th		Art I A/B	1.0	<i>Yes, if the student earns a <b>3 or higher on an AP examination.</b> Also see dual credit criteria</i>	<i>Meets the requirement of one Fine Arts Endorsement. See all other criteria needed to complete Distinguished Level of Achievement</i>
10th		Art II A/B	1.0		
11th		Art III including AP Art	1.0		
12th		Art IV including AP Art	1.0		
<b>Total Credits Needed</b>			<b>4.0</b>		

<b>Fine Arts Endorsement</b> with <b>English IV</b> and <b>four</b> (courses/credits): may include a coherent sequence of four credits by selecting courses from <b>one or two categories or disciplines in fine arts.</b> See some course suggestions in the chart below.					
Grade Levels	Course #s... a variety qualify	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
9th		Dance I or Theatre I A/B	1.0	<i>Review all criteria. See dual credit criteria</i>	<i>Meets the requirement of one Fine Arts Endorsement. See all additional criteria needed to complete Distinguished Level of Achievement</i>
10th		Dance II or Theatre II A/B	1.0		
11th		Dance III or Theatre III A/B	1.0		
12th		Dance IV or Theatre IV A/B	1.0		
<b>Total Credits Needed</b>			<b>4.0</b>		

**Fine Arts Music Endorsements** includes courses from Levels I-IV in a variety of areas such as Instrumental Music (Band, Orchestra, Jazz Band, and Instrumental Ensembles); Choral Music (a variety of Choir courses and Vocal Ensembles); along with Music History and Music Theory including AP Music Theory).

<b>Music Endorsement</b> with <b>English IV</b> and <b>four</b> (courses/credits): See some course suggestions in the chart below. AP courses may be available at various campuses.					
Grade Levels	Course #s... a variety qualify	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
9th		Music I A/B	1.0	<i>Yes, if the student earns a <b>3 or higher on an AP examination.</b></i>	<i>Meets the requirement of one Fine Arts Endorsement. See all additional criteria needed to complete Distinguished Level of Achievement.</i>
10th		Music II A/B	1.0		
11th		Music III or AP Music Theory	1.0		
12th		Music IV or AP Music Theory	1.0		
<b>Total Credits Needed</b>			<b>4.0</b>		

**Humanities Endorsement Course Sequence Samples**

<b>Humanities Endorsement</b> with <b>English IV</b> and <b>four</b> (courses/credits) <b>College Board Advanced Placement Social Studies</b> by selecting courses from Chapter 113-Social Studies or Chapter 118-Economics. See some course suggestions in the chart below. Social Studies AP courses may be available at various campuses.					
Grade Levels	Course #s	Names of qualifying AP Courses	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
9th	8003	*AP Human Geography A/B	1.0	<i>Yes, if the student earns <b>3 or higher</b> on an AP examinations.</i>	<i>Meets Humanities Endorsement requirement. See all criteria needed to complete Distinguished Level of Achievement</i>
10th	8037	*AP Modern World History A/B	1.0		
11th	8215	*AP US History A/B	1.0		
12th	8135	*AP US Government T	0.5		
	8098	*AP Macroeconomics T	0.5		
	8099	*AP Microeconomics T	0.5		
<i>Elective</i>	8219	† European History A/B	1.0		
<i>Elective</i>	8078	† Comp Government	0.5		
<i>Elective</i>	8127	† Psychology	0.5		
		<b>Total Credits Needed</b>	<b>5.0</b>	<b>5 Social Studies Credits needed for Arts &amp; Humanities</b>	

\* Meets Foundation Diploma Graduation Social Studies Course Requirement

† elective course

<b>Humanities Endorsement</b> with <b>English IV</b> and <b>four</b> (courses/credits) by selecting courses from AP/IB Social Studies or Economics. See Some course suggestions below in the chart					
Grade Levels	Course #s	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
9th	8003	AP social studies course	1.0	<i>Yes, if the student earns scores of assessment.</i>	<i>Meets Humanities Endorsement requirement. See all criteria needed to complete Distinguished Level of Achievement</i>
10th	8037	AP social studies course	1.0		
11th	30132	HL History of the Americas I A/B	1.0		
12th	031302	HL History of the Americas II A/B = US History, Government, and Economics requirements	1.0		
		<b>Total Credits Needed</b>	<b>5.0</b>	<b>5 Social Studies Credits needed for Arts &amp; Humanities</b>	

**Humanities Endorsement in World Languages Examples**

<b>World Languages Endorsement</b> with <b>English IV</b> and <b>four</b> (courses/credits) which may include <b>College Board Advanced Placement courses and/or dual credit courses</b> . See some course suggestions in the chart below.					
Grade Levels	Course #s... a variety qualify	Course Names: Chinese, French, German, Italian, Japanese, Latin, Spanish	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
*7-8 or 9th		Language Level I A/B	1.0	<i>Yes, if the student earns <b>3 or higher</b> on an AP examination or completes <b>3 or 4 credits</b> of the same language with a minimum GPA of the equivalent of 80 on</i>	<i>Meets the requirement of one Humanities Endorsement. See all criteria needed to complete Distinguished Level of Achievement</i>
10th		Language Level II A/B	1.0		
11th		Language Level III A/B	1.0		
12th		AP Language & Culture	1.0		
		<b>I-IV Levels/Needed</b>	<b>4.0</b>		

\*Heritage Spanish speakers may earn Level III and/or AP credit

<b>World Languages Endorsement</b> with <b>English IV</b> and <b>four</b> levels of American Sign Language (courses/credits)					
Grade Levels	Course #s	Courses Names:	Course Credit	Does this sequence qualify for a Performance Acknowledgement	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
9th	4402, 4414 DC	American Sign Language I A/B or	1.0	<i>Yes, if the student completes 3 or 4 credits in the same language with a minimum GPA of the equivalent of 80 on a scale of 100. Also see dual credit criteria</i>	<i>Meets the requirement of one Humanities Endorsement. See all criteria needed to complete Distinguished Level of Achievement.</i>
10th	4404, 4416 DC	American Sign Language II A/B or Dual Credit	1.0		
11th	4408, 4418 DC	American Sign Language III A/B or Dual Credit	1.0		
12th	4412, 4420 DC	American Sign Language IV A/B or Dual Credit	1.0		
		<b>Total Credits Needed</b>	<b>4.0</b>		

**Multidisciplinary Studies Endorsement Samples**

<b>Multidisciplinary Endorsement</b> with <b>English IV</b> and including <b>advanced course credits in the four</b> foundation subjects (courses/credits). See some course suggestions in the chart below.					
Grade Levels most likely	Course #s	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for endorsement for the Distinguished Level of Achievement (DLA)
Grades 11 or 12	ELA	English IV or AP ELA	1.0	<i>Yes, if the student earns <b>3 or higher</b> on the AP examination. Also see dual credit criteria</i>	<i>Meets the requirement of one Multidisciplinary Endorsement. See all criteria needed to complete Distinguished Level of Achievement</i>
	Math	Algebra II or AP Calculus	1.0		
	Science	Chemistry or Physics or AP	1.0		
	Social Studies	AP US History or AP Government & AP Macroeconomics	1.0		
		<b>Total Credits Needed</b>	<b>4.0</b>		

**Multidisciplinary Endorsement Course Sequence Samples with AP Courses**

<b>Multidisciplinary Endorsement with AP courses to include one credit in each of the four foundation subjects.</b>					
Grade Levels varies	Course #s vary	Course Name	Course Credit	Does this sequence qualify for a Performance Acknowledgement?	Sequence qualifies for an endorsement for the Distinguished Level of Achievement (DLA)
ELA	3062	AP Lang & Comp; or	1.0	<i>Yes, if the student earns <b>3 or higher</b> on an AP examination.</i>	<i>Meets the requirement of one Multidisciplinary Endorsement. See all criteria needed to complete Distinguished Level of Achievement</i>
	3064	AP Lit & Comp			
Math	7145	AP Statistics; or	1.0		
	7124	AP Calculus AB; or			
	7126	AP Calculus BC; or			
	2142	AP Computer Science A			
Science	7590	AP Biology; or	1.0		
	7610	AP Chemistry; or			
	7625	AP Physics 1 or			
	7627	AP Physics 2; or			
	7628	AP Physics C: Mechanics			
	7618	AP Physics C: Elect-Mag; or			
7678	AP Environmental Science				
Social Studies	8127	AP Psychology T	1.0		
	8003	AP Human Geography; or			
	8037	AP Modern World History; or			
	8215	AP US History; or			
	8219	AP European History; or			
	8135	AP US Gov & Politics T; or			
	8078	AP Com Gov & Politics T; or			
	8098	AP Macroeconomics T; or			
8099	AP Microeconomics T				
		<b>Total Credits Needed</b>	<b>4.0</b>		

## Performance Acknowledgements

Transcripts and diplomas will include Foundation Program Performance Acknowledgements.

Students can earn performance acknowledgements for dual credit, bilingualism and biliteracy, AP or IB exams, PSAT, ACT-Plan, SAT or ACT testing, or certifications and licensures.

DUAL CREDIT	<p>Successful completion of:</p> <ol style="list-style-type: none"> <li>1. At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical courses, including locally articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0; or</li> <li>2. An associate degree while in high school</li> </ol>
BILINGUALISM AND BILITERACY	<p>Demonstrate proficiency in accordance with District grading policy in two or more languages by:</p> <ol style="list-style-type: none"> <li>1. Completing all English language requirements and maintaining a minimum grade point average (GPA) of the equivalent of 80 on a scale of 100; and</li> <li>2. Satisfying one of the following:             <ol style="list-style-type: none"> <li>a. Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; or</li> <li>b. Demonstrate proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; or</li> <li>c. Completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; or</li> <li>d. Demonstrate proficiency in one or more languages other than English through one of the following methods:                 <ol style="list-style-type: none"> <li>i. Score of 3 or higher on a College Board AP exam for a language other than English; or</li> <li>ii. Score a 4 or higher on an IB exam for a higher-level language other than English course; or</li> <li>iii. Performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent</li> </ol> </li> </ol> </li> </ol> <p>In addition to meeting the requirements to earn a performance acknowledgement in bilingualism and biliteracy, an English language learner must also have:</p> <ol style="list-style-type: none"> <li>1. Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and</li> <li>2. Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).</li> </ol>
AP TEST	<p>Earn a:</p> <ol style="list-style-type: none"> <li>1. Score of 3 or above on a College Board advanced placement examination.</li> </ol>



PSAT ACT-ASPIRE SAT ACT	<ol style="list-style-type: none"> <li>1. Score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT®) that qualifies the student for recognition as a commended scholar or higher by the College Board or as an awardee of the National Recognition Programs of the College Board.</li> <li>2. Earn a composite score of 442 on the ACT Aspire® examination.</li> <li>3. Earn a composite score of 29 on the ACT PreAct® examination.</li> <li>4. Earn a total score of at least 1350 on the SAT®; or</li> <li>5. Earn a composite score on the ACT® examination of 29 (excluding the writing subscore)</li> </ol>
CERTIFICATION OR LICENSE	Earn a nationally or internationally recognized business or industry certification or license with: <ol style="list-style-type: none"> <li>1. Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or</li> <li>2. Performance on an examination sufficient to obtain a government-required credential to practice a profession.</li> </ol>

### **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 a distinguished level of achievement to be eligible for top 10% automatic admission

### **Notations on Foundation Student Transcript**

The Foundation High School transcript for a student who satisfies the applicable requirements will include the following types of achievement:

- Distinguished Level of Achievement
- Endorsements, and
- Performance Acknowledgements

# Foundation Graduation Program Frequently Asked Questions from TEA

## General

### 1. What does the term “required course” mean?

The term “required course” includes any course for which a student must earn credit to satisfy graduation requirements. Required courses include specific courses listed in the graduation requirements, electives, courses required for the Foundation High School Program under §74.12, and courses required for endorsements under §74.13.

### 2. May a course satisfy both a foundation and an endorsement requirement?

Yes. A course completed as part of the set of four courses needed to satisfy an endorsement requirement may also satisfy a requirement under the Foundation High School Program, including an elective requirement.

### 3. Can AP/IB and dual credit courses satisfy elective credit requirements?

Yes. A student may earn state elective credit for any course that is included in or aligns with the TEKS for a course identified in TAC, Chapters 110-118, 126-128, and 130 and for which a student has not already earned credit toward a specific course requirement.

### 4. May a district require 26 credits for graduation for all students?

Yes. School districts have the authority to establish requirements in addition to what the state requires of students for graduation. This is a local decision.

### 5. If a specific course can be taught for more than one credit, how will the credit be applied to the new graduation requirements?

If a student earns more than one credit for a specific course, the credit may be applied to an applicable graduation requirement and any additional credit may be applied to an elective and/or endorsement requirement. For example, if a student earns one and one-half credits for successful completion of AP Chemistry, the first credit could satisfy an advanced science requirement and the additional half credit could satisfy an elective requirement.

### 6. Can a school district that requires additional credits for graduation substitute those additional required credits for Foundation High School Program requirements?

A district has the authority to require credits in addition to those credits required by the state, but they cannot substitute courses/credits for those required by the state. 1 March 13, 2014

### 7. If a school district requires a specific course beyond what the state requires, does that increase the total number of credits a student needs to graduate?

A district has the authority to require credits in addition to those credits required by the state and can choose to increase the total number of credits students are required to earn in order to graduate. Since a district ultimately decides what courses a student enrolls in, a district also has the authority to require all students to earn credit for a specific course to satisfy an elective requirement. If a district requires a specific course to satisfy an elective requirement, the total number of credits needed to graduate would not be increased.

### 8. Are there course sequence requirements under the new graduation program?

There are not specific course sequence requirements in the new graduation program. However, districts should pay close attention to prerequisite requirements.

### 9. How do prerequisites factor into the new graduation requirements?

Prerequisites are identified in the Texas Essential Knowledge and Skills for each course. Prerequisites are requirements unless they are specifically listed as recommended prerequisites.

**10. Will the agency provide official forms to document students who choose to graduate foundation only without an endorsement?**

Yes. Forms will be available on the TEA website.

**English**

**1. Do districts have the discretion to require English IV as the advanced English course for all students?**

Since a district ultimately decides what courses a student enrolls in, a district also has the authority to require all students to earn credit for a specific course to satisfy the advanced English requirement.

**2. Can a district limit the options available to students to satisfy the advanced English requirement?**

Districts do not have to offer every course option, but if the district does offer a course the SBOE has approved to satisfy an advanced English credit, students may not be denied the credit to satisfy that requirement.

**3. Is there a required sequence of courses for English? For example, could a student take Technical Writing then take English III?**

*Please note, that the State Board ruled in April 2016 that English I, II, and III must be completed prior to awarding credit for English IV. There is nothing in rule or law that delineates a specific sequence; however, districts should pay close attention to the prerequisites for each of these courses.*

**Speech**

**1. Do districts have the discretion to require a speech course for all students?**

Yes. Each school district is responsible for ensuring that students demonstrate proficiency in the speech skills required by §74.11(a)(3). This can be accomplished by requiring a speech course or by other means. This is a local decision.

**2. How are school districts supposed to document a student's demonstrated proficiency of the required speech skills?**

Documentation of a student's demonstrated proficiency must be included on the Academic Achievement Record (AAR). Additional guidance will be provided in the revised Minimum Standards for the AAR.

**3. Can a district use Professional Communications to satisfy the new speech skills requirement?**

Yes, school districts have the authority to use Professional Communications to meet the speech requirement. This is a local district decision.

**Mathematics**

**1. Is there still a required sequence for math? For example, does a student have to take Algebra I before taking Math Models with Applications?**

No. However, districts should pay close attention to prerequisite requirements when scheduling students in math courses. Please note that prerequisites for some of the high school mathematics courses will change when the revised math TEKS are implemented in the 2015-2016 school year.

**2. Is Algebra II a prerequisite for any other advanced math courses?**

Algebra II is a prerequisite for some, but not all advanced math courses. Districts should pay close attention to the courses that may satisfy an advanced mathematics course under the foundation program and the courses that may satisfy an advanced mathematics course required for a student to earn an endorsement. Additionally, districts should pay close attention to prerequisite requirements for each advanced mathematics course.

**3. May Math Models with Applications be offered first in the sequence of math courses offered by a district?**

There is nothing in rule or law that specifically allows or prevents this for the 2014-2015 school year. However, Algebra I will be a prerequisite for Math Models with Applications when the revised TEKS are implemented in the 2015-2016 school year.

**4. May Math Models with Applications be offered concurrently with Algebra I or geometry in the sequence of math courses offered?**

There is nothing in rule or law that specifically allows or prevents this for the 2014-2015 school year. However, Algebra I will be a prerequisite for Math Models with Applications when the revised TEKS are implemented in the 2015-2016 school year. Beginning in 2015-2016, geometry and Math Models with Applications can be taken concurrently, provided the student has successfully completed Algebra I.

**5. Is Math Models with Applications being phased out?**

No. The administrative rules allow students to use credit earned in Math Models with Applications as an option for the mathematics credit required to earn an endorsement for the 2014-2015 school year only. This course will continue to be an option for students to earn the advanced credit required under the foundation program.

**Science**

**1. Does the second science credit have to be taken before the third science credit?**

No. The use of the terms "second" and "third" in the rule is not intended to imply a sequence. However, districts should pay close attention to prerequisite requirements when scheduling students in science courses.

**2. Can a student take IPC after chemistry and/or physics?**

There is nothing in rule or law that specifically allows or prevents a specific course sequence. However, districts should pay close attention to prerequisite requirements for each of these courses.

**3. How can AP Physics 1 and 2 be used?**

AP Physics 1 may count as a second science credit option or a third science credit option. AP Physics 2 may count as a third science credit option only.

**4. Is there anything that prevents a district from offering a course other than biology to ninth grade students?**

The administrative rules do not prescribe a sequence. Districts should pay close attention to prerequisite requirements when scheduling students in science courses.

**5. What is considered an advanced science course?**

The State Board of Education has identified a list of science courses that may satisfy each of the advanced science courses required for graduation.

**Social Studies**

**1. Do districts have the discretion to require both World Geography and World History for all students?**

Yes. School districts have the authority to establish requirements in addition to what the state requires of students for graduation. This is a local decision.

**2. Can districts place students in a semester of World Geography and a semester of World History to satisfy the combined World History/World Geography requirement?**

No. The SBOE must adopt Texas Essential Knowledge and Skills for a combined World History/World Geography course before this will be an option available to students.

## **Health and Physical Education**

### **1. Do districts have the discretion to require a health course for all students?**

Yes. School districts have the authority to establish requirements in addition to what the state requires of students for graduation. This is a local decision.

### **2. Can any TEKS-based course that includes 100 minutes of moderate to vigorous physical activity satisfy the PE requirement?**

Yes. In accordance with local district policy, the required PE credit may be earned through completion of any TEKS-based course that meets the requirement for 100 minutes of moderate to vigorous physical activity per five-day school week. Please note that such a course cannot be used to satisfy another specific graduation requirement.

### **3. Can a school district add a requirement of moderate to vigorous physical activity to any TEKS-based course and award PE credit for that course?**

Yes. A school district may add a requirement for 100 minutes of moderate to vigorous physical activity per five-day school week and award PE credit for that course. Please note that such a course cannot be used to satisfy another specific graduation requirement.

## **Languages Other Than English (LOTE)**

### **1. What courses satisfy the computer programming languages option for the LOTE graduation requirements?**

Computer Science I, II, and III may satisfy this requirement until September 1, 2016. The SBOE is expected to revisit these options at a future date. *Please note that the SBOE at its April 2016 meeting did remove the September 1, 2016 expiration date from this option*

### **2. Can CTE computer programming courses satisfy the LOTE requirement?**

No. At this time only Computer Science I, II, and III may satisfy this requirement. The SBOE is expected to revisit these options at a future date.

## **Fine Arts**

### **1. What is a community-based fine arts program?**

A community-based fine arts program is a fine arts program that provides instruction in all of the TEKS for a high school fine arts course and that is offered outside of the school day and often off-campus. Examples of community-based fine arts programs include community theatre or dance programs offered at a local dance studio.

## **Technology Applications**

### **1. May a district continue to require a course such as technology applications for high school graduation that the state no longer requires?**

Yes. School districts have the authority to require beyond what the state requires of students for graduation. This is a local decision. If a district requires a TEKS-based course, such as a technology applications course, that is not required by the state, the course could count toward the state elective requirements.

### **2. What will happen with the computer science courses if they are scheduled to “go away” in 2016?**

The computer science courses are not going away. They will continue to be course options for students. These courses are options for satisfying the languages other than English graduation requirement until September 1, 2016. *Please note that at its April 2016 meeting, the SBOE removed the September 1, 2016 expiration date.*

## Endorsement Frequently Asked Questions from TEA

### General

#### 1. Does every student have to graduate with an endorsement?

No. A student may opt to graduate Foundation High School Program only without an endorsement if, after the student's sophomore year the student and the student's parent or guardian are advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements and the student's parent or guardian files with a school counselor written permission, on a form adopted by the Texas Education Agency (TEA), allowing the student to graduate under the Foundation High School Program without earning an endorsement.

#### 2. Can a student earn more than one endorsement?

Yes. A district must allow a student to enroll in courses under more than one endorsement before the student's junior year.

#### 3. Can a student change endorsements? When?

Yes. While a district is not required to offer all endorsements, a district must allow a student to choose, at any time, to earn an endorsement other than the endorsement the student previously indicated from among the available endorsements.

#### 4. I'm concerned that my small district cannot offer endorsements. What endorsements should a district be able to offer?

Without altering the courses that a school district is currently required by SBOE rule to offer, a district should be able to offer at least three of the five endorsements. Multidisciplinary (all districts are required to offer at least four courses in each foundation subject area, to include English IV, Chemistry, and/or Physics) Business and Industry (TAC, §74.3(b)(2)(G) requires a district to offer a coherent sequence of courses from at least three CTE career clusters) STEM (TAC, §74.3(b)(2)(C) requires a district to offer at least six science courses)

#### 5. Will all high schools be required to offer multiple endorsements, even those that focus 100% on STEM/engineering?

No. Statute requires each school district to make available to high school students courses that allow a student to complete the curriculum requirements for at least one endorsement. A school district that offers only one endorsement curriculum must offer the multidisciplinary studies endorsement curriculum.

#### 6. The new graduation rules include the following statement, "This section does not entitle a student to remain enrolled to earn more than 26 credits." Does this mean that a student cannot earn more than 26 credits?

No. This statement means that a student is not entitled to continue earning credits to earn endorsements indefinitely. A district may permit a student to earn more than 26 credits, but has the authority to deny a student's request to continue earning credits beyond the 26 if the district determines that the student has sufficient credits to graduate with an endorsement.

#### 7. May a course satisfy both a foundation and an endorsement requirement?

Yes. A course completed as part of the set of four courses needed to satisfy an endorsement requirement may also satisfy a requirement under the Foundation High School Program, including an elective requirement. A student must still earn a total of 26 credits to graduate on the Foundation High School Program with an endorsement.

#### 8. Do districts have the authority to require Algebra II or other specific courses for all endorsements?

Yes. School districts have the authority to establish requirements in addition to what the state requires of students for graduation. This is a local decision.

## **9. Who decides what constitutes a coherent sequence of courses?**

Each local school district has the authority to determine a coherent sequence of courses and identify courses within that sequence as advanced courses for the purposes of satisfying an endorsement requirement, provided that prerequisites are followed.

## **10. In some endorsement options there doesn't seem to be a clear sequence. Will the district determine the sequence in these cases?**

Yes. A school district determines the specific set of courses each student must complete to earn an endorsement, provided that prerequisites are followed and that the set of courses meets the requirements of the options listed for an endorsement in SBOE rule.

## **11. Should planning be approached by picking an endorsement and then planning the courses necessary to obtain that particular endorsement, or should it be approached by first picking courses and then discovering which endorsement area the sequence fits (at a later time)?**

This is a local decision.

## **12. Are students required to meet each of the options listed under an endorsement area, or they required to only meet one of the options?**

To earn an endorsement a student must complete any specific course requirements and one set of requirements identified in the endorsement rules. For example, to earn a business and industry endorsement, a student must complete the course requirements for CTE or the course requirements for English language arts electives, but not both.

## **13. Under the endorsements for which CTE courses are an option, is there a list of "advanced CTE courses that are the third or higher course in a sequence"?**

Advanced CTE courses are those designated as a Level 3 or 4 course in each TEA Program of Study. The Fort Worth ISD has generally scheduled those courses at the 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade levels.

## **14. Can Career Preparation be used as the final course in a sequence for an endorsement for which there are CTE course options?**

In some instances, yes. TEA has designated Career Preparation I as a possible final course for some Programs of Study but not all.

## **15. If a student takes two CTE courses in his/her final semester, each from a different endorsement area, which endorsement would the student earn?**

If a student takes two CTE courses that align with two different endorsement areas, the local school district must determine which course is part of the coherent sequence of courses for that student. The student will still need to complete all requirements for an endorsement. This is a local decision.

## **STEM**

### **1. Can AP Physics I satisfy the physics requirement for the STEM endorsement?**

Yes. College Board Advanced Placement and International Baccalaureate courses may be substituted as appropriate for required courses.

### **2. Can Principles of Technology satisfy the physics requirement in the STEM endorsement?**

Yes. Principles of Technology addresses all of the TEKS for physics and credit may not be earned for both physics and Principles of Technology to satisfy science credit requirements.

### **3. The fifth option under the STEM endorsement says "a coherent sequence of three additional credits." What does this mean?**

Students may earn a STEM endorsement by successfully completing Algebra II and three additional credits from no

more than two of the following categories: the STEM CTE career cluster, computer science courses that may satisfy a STEM endorsement, mathematics courses beyond Algebra II, or science courses. The three additional credits must be a coherent sequence of courses as determined by the local district.

#### **4. Which science courses may satisfy the science option under the STEM endorsement?**

The list of science courses that may satisfy a STEM endorsement are identified in TAC §74.13(e)(5).

#### **5. Why is there a discrepancy between the number of courses required to earn a math STEM endorsement and the number of courses required to earn a science STEM endorsement?**

There is not a discrepancy in the number of courses. To earn a STEM endorsement in mathematics, a student must successfully complete a total of five courses: Algebra I, Geometry, Algebra II, and two additional math courses for which Algebra II is a prerequisite. To earn a STEM endorsement in science, a student must successfully complete a total of five courses: biology, chemistry, physics, and two additional science courses.

### **Business and Industry**

#### **If a student on a business and industry endorsement program chooses a computer programming language to meet the foundation program Languages Other Than English (LOTE) requirement, will these courses satisfy both the LOTE requirement and the endorsement requirement under the Information Technology career cluster?**

The only courses that are currently approved to satisfy the LOTE requirement are Computer Science I, II, III, AP Computer Science Principles, and AP Computer Science A. These courses may satisfy the LOTE requirement and may count toward a STEM endorsement, but not a business and industry endorsement.

A student must still earn a total of 26 credits to graduate on the Foundation High School Program with an endorsement.

### **Public Services**

#### **May a student seeking a public services endorsement who is taking a sequence of courses in the Human Services career cluster use a course from another career cluster as part of the coherent sequence of courses?**

Yes. A coherent sequence of courses may include courses from any CTE career cluster provided that the final course in the sequence is obtained from one of the CTE career clusters identified under the public services endorsement. Districts must determine locally that courses from different career clusters create a coherent sequence of courses.

### **Arts and Humanities**

#### **1. Is it permissible to substitute an additional arts and humanities course for the fourth science requirement if the student is pursuing an arts and humanities endorsement?**

A student pursuing an arts and humanities endorsement who has the written permission of the student's parent may substitute an English language arts course, a social studies course, a LOTE course, or a fine arts course for the additional science credit required to earn an endorsement.

#### **2. Under the arts and humanities endorsement, if a student has taken English IV, can it count as part of the four English elective credits?**

Yes. A course completed as part of the set of four courses needed to satisfy an endorsement requirement may also satisfy a requirement under the Foundation High School Program, including an elective requirement. A student must still earn a total of 26 credits to graduate Foundation High School Program with an endorsement.

#### **3. How many social studies courses are required for a student to earn an arts and humanities endorsement?**

The social studies option under arts and humanities requires that a student complete five credits in social studies.



## Multidisciplinary Studies

**Under the multidisciplinary studies endorsement, what courses will satisfy the requirement for “four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation”?**

Each local school district has the authority to identify advanced courses for the purposes of satisfying an endorsement requirement, provided that they meet the definition above.

## Individual Graduation Committee Frequently Asked Questions

### General

#### **1. Are all students eligible to receive an Individual Graduation Committee review?**

Only students who are classified in grade 11 or 12 or who have taken and have failed to achieve the end-of-course (EOC) assessment performance requirements for graduation for not more than two courses are eligible for individual graduation committee (IGC) review.

### Student Eligibility

#### **2. Can students who did not qualify for an individual graduation committee review because they had failed more than two of the required assessments become eligible for an individual graduation committee review by passing one or more of the required assessments?**

Yes. If a student who had failed more than two of the required EOC assessments subsequently meets additional assessment requirements either through retesting or by using a substitute assessment, they may become eligible for an individual graduation committee review.

#### **3. Are students who are required to meet TAKS requirements instead of STAAR EOC requirements eligible to receive a diploma based on individual graduation committee review?**

No. Eligibility under TEC, §28.0258(a) is specific to students who have taken and have failed to achieve the EOC assessment performance requirements for graduation for not more than two courses. There is no reference to other exit-level assessments in the statute.

Former students who are required to meet TAKS requirements may be able to receive a diploma based on a district decision in accordance with TEC, §28.02541 and 19 TAC, §74.1027 a [separate FAQ](#) addresses questions about this process.

#### **4. Are students who are classified as three-year early graduates eligible to receive an individual graduation committee review?**

A student may not qualify to graduate based on an IGC determination before the student's 12<sup>th</sup> grade year. In order for a student to be eligible to graduate based on an IGC determination, the student must have satisfactorily completed credit requirements for graduation specified in Chapter 74, must be classified as a 12<sup>th</sup> grade student, and must have taken all required EOC assessments.

#### **5. Is a transfer student who was exempt from some but not all EOCs eligible to receive a diploma based on Individual Graduation Committee review?**

An 11<sup>th</sup> or 12<sup>th</sup> grade transfer student is eligible to graduate based on an IGC determination if, of the assessments the student has taken, the student has failed to achieve the EOC assessment performance requirements for graduation for not more than two courses [TEC, §28.0258(a)].

#### **6. If a student fails three EOC assessments including Algebra I, but receives a score of proficient on the Texas Success Initiative (TSI) assessment for math, is the student eligible to receive an Individual Graduation Committee review?**

Yes. A student who has taken and failed to achieve the EOC assessment performance requirement for Algebra I after two attempts, but who receives a score of proficient on the TSI assessment for math is considered to have satisfied the Algebra I EOC requirement [TEC, §39.025(a-3); 19 Tex. Admin. Code § 101.3022(f)].

## **Special Populations**

### **7. Are students who receive special education services eligible to receive an Individual Graduation Committee review?**

When a student receives special education services, the student's Admission, Review, and Dismissal (ARD) committee determines whether the student is required to achieve satisfactory performance on the EOC assessments. If the ARD committee determines that a student is not required to achieve satisfactory performance on the EOC assessments, the student is considered to be in compliance with assessment requirements under TEC §39.025 and an IGC review would not be necessary.

### **8. For an eligible emergent bilingual (EB) student who does not meet the standard on the English I EOC and who is not required to retest based on the Special Provision for English I EOC, does the failing score on English I count as one of the two EOC assessments that a student can fail and still be considered by the Individual Graduation Committee for graduation?**

Yes. An EB student who failed the English I EOC, but meets eligibility for the English I Special Provision and therefore is not required to pass English I, is eligible for IGC review if the student attempts all other required EOCs and fails to pass one additional test. The EB student would also qualify for an IGC if the student passed the English I EOC assessment but failed to pass two other EOC assessments.

### **9. If an EB student was eligible for the English I Special Provision and has passed the other required EOC assessments, does the EB student now have to receive an IGC review in order to graduate?**

No, the qualifying EB student would not need an IGC review in order to graduate. An EB student who qualifies for the Special Provision only becomes eligible for IGC review by failing to pass the English I EOC assessment and one other EOC assessment.

### **10. If an EB student was eligible for the English I Special Provision and has passed all but one other test (for example English II) must the student complete remediation and a project or portfolio for both English I and the second assessment the student failed?**

Yes. If a qualifying EL does graduate by means of an IGC, the student is required to complete IGC requirements for each course in which the student did not pass the EOC assessment.

## **IGC Process**

### **11. What process should a district or charter school follow to implement Individual Graduation Committees?**

[TEC, §28.0258(c)]. Requires the superintendent of each school district or leader of each charter school to establish procedures for the convening of an IGC. The TEA IGC Guidance document includes recommendations for districts and charter schools to consider for the IGC process, including guidance regarding documentation of the process and IGC decision.

### **12. Who must be on an Individual Graduation Committee?**

The IGC must be composed of: • the principal or his/her designee; • the teacher of the course for which the student did not pass the EOC assessment; if this teacher is not available, the principal may designate a teacher certified in the subject area who is most familiar with the student's performance in the subject area; • the department chair or lead teacher supervising the teacher of the course; if this individual is unavailable, the principal may designate an

experienced teacher certified in the subject who is familiar with the content of and instructional practices for the applicable course; • as applicable, the student's parent or guardian; a designated advocate; or the student, at the student's option, if the student is at least 18 years old or is an emancipated minor [TEC, §28.0258(b)]

**13. What are the requirements that the Individual Graduation Committee must recommend in order for a student to qualify for graduation?**

A student's IGC is required to recommend additional requirements by which the student may qualify to graduate including additional remediation and, for each EOC assessment on which the student failed to perform satisfactorily:

- the completion of a project related to the subject area of the course that demonstrates proficiency **or** • the preparation of a portfolio of work samples in the subject area of the course, including work samples from the course that demonstrate proficiency. (Work samples may include previously completed coursework) [TEC, §28.0258(f)]. 3

**14. How does an Individual Graduation Committee determine that a student is qualified to graduate?**

A student is qualified to graduate on the basis of an IGC decision only if the student: • successfully completes the credit requirements for the foundation high school program identified by the State Board of Education • the student successfully completes all additional requirements recommended by the IGC, and • the committee's vote is unanimous [TEC, §28.0258(i)].

In determining whether a student is qualified to graduate the IGC must consider: • the recommendation of the student's teacher in each course for which the student failed to perform satisfactorily on an EOC assessment; • the student's grade in each course for which the student failed to perform satisfactorily on an EOC assessment; • the student's score on each EOC assessment on which the student failed to perform satisfactorily; • the student's performance on any additional requirements recommended by the committee; • the number of hours of remediation that the student has attended, including attendance in a college preparatory course, if applicable, or attendance in and successful completion of a transitional college course in reading or mathematics • the student's school attendance rate; • the student's satisfaction of any of the Texas Success Initiative (TSI) college readiness benchmarks prescribed by the Texas Higher Education Coordinating Board; • the student's successful completion of a dual credit course in English, mathematics, science, or social studies; • the student's successful completion of a high school pre- Advanced Placement (AP), AP, or International Baccalaureate program course in English, mathematics, science, or social studies; • if applicable, the student's rating of advanced high on the most recent high school administration of the Texas English Language Proficiency Assessment System (TELPAS); • if applicable, the student's score of 50 or greater on a College-Level Examination Program (CLEP) examination; • if applicable, the student's score on the ACT, SAT, or Armed Services Vocational Aptitude Battery (ASVAB) test; • if applicable, the student's completion of a sequence of courses under a career and technical education program required to attain an industry-recognized credential or certificate; • the student's overall preparedness for postsecondary success; and • any other academic information designated for consideration by the board of trustees of the school district or charter [TEC, §28.0258(h)].

**15. If the Individual Graduation Committee determines that a student is qualified to graduate, will the student be eligible to graduate with an endorsement?**

Yes. If a student completes all of the credit requirements for an endorsement outlined in 19 TAC, §74.13, the student is eligible to graduate with an endorsement. To earn an endorsement a student must demonstrate proficiency in the credit requirements for the foundation high school program, a fourth credit in mathematics, a fourth credit in science, and two additional elective credits for a total of 26 credits. As part of the 26 credits, a student must complete a coherent sequence of courses for the endorsement [19 TAC, §74.13].

**16. If the Individual Graduation Committee determines that a student is qualified to graduate, will the student be eligible to graduate with the distinguished level of achievement?**

Yes. If a student completes all of the requirements for distinguished level of achievement outlined in 19 TAC, §74.11(f), the student is eligible to graduate with the distinguished level of achievement. To earn the distinguished level of achievement, a student must demonstrate proficiency in the credit requirements for the foundation high school

program, earn at least one endorsement, and successfully complete Algebra II as one of the four mathematics credit requirements [TAC, §74.11(e)].

**17. If an Individual Graduation Committee determines that a student is qualified to graduate, will the student graduate under their original graduation program, or does the decision default a student to a lower or different graduation program?**

The coursework that a student completes determines the graduation program that the student graduates under. Graduation based on an IGC determination does not change the graduation program for the student.

**18. If the Individual Graduation Committee determines that a student is qualified to graduate, will the student be eligible to graduate with performance acknowledgements?**

Yes. If a student completes all of the requirements for a performance acknowledgment outlined in 19 TAC §74.14, the student is eligible to graduate with the performance acknowledgment.

**19. Are there any timelines associated with an Individual Graduation Committee review?**

Yes, there are three key timelines that guide an individual graduation committee review.

- The law establishes that a district or open-enrollment charter school must establish an individual graduation committee for each eligible student at the end of or after the student's 11<sup>th</sup> grade year to determine whether the student may qualify to by IGC decision
- Administrative rules specify that a district or charter school may not establish an initial individual graduation committee for eligible students after June 10 or before the start of the next school year.
- In order for a student to be included as a graduate in the school district's or charter school's graduation data in the school year in which the student meets the requirements, an individual graduation committee must make a decision to award a diploma no later than August 31 immediately following that school year. Please note that a student who graduates as a result of an individual graduation committee decision after August 31 shall be reported in the subsequent year's graduation data.

## **Charter Schools**

**20. Are charter schools required to establish individual graduation committees?**

Yes. An open-enrollment charter school is subject to the requirement to establish an individual graduation committee.

**21. Do the reporting requirements identified in new TEC, §28.0259 apply to charter schools?**

Yes. TEC, §28.0259 requires reporting through PEIMS and TEC, §12.104(b)(2)(A) requires charters to comply with PEIMS requirements.

## **Documentation**

**22. What paperwork are districts required to keep regarding the individual graduation committee's decision?**

The district or open-enrollment charter school must maintain all student-level documentation related to the IGC review, notifications, decision process, and final outcomes.

**23. How should EOC performance be documented on the AAR if a student failed an EOC but has been permitted to graduate based on IGC review and decision?**

For each instance in which the student has failed to achieve the EOC assessment performance requirements, the AAR should reflect "Did Not Meet Grade Level" performance.

**24. Should any additional information be included on the AAR to indicate that the student graduated based on IGC review and decision?**

No. However, the district or open-enrollment charter school must maintain separate documentation of the IGC review and decision.

## Miscellaneous Questions

**25. Are there any implications if a campus has too many students graduating via an IGC?**

House Bill 1603 passed by the Texas Legislature in 2021 permits the commissioner of education to conduct a special investigation of any campus that graduates more than 10% of its class via an individual graduation committee.

**26. If an individual graduation committee allows a student to graduate and the student is still enrolled in school when the STAAR end-of-course test is administered, does the district have to administer the STAAR EOC to the student?**

Districts must offer an end-of-course assessment to any student who has not passed the assessment regardless of the individual graduation committee's decision.

**27. Once former students have met the requirements of the IGC, should the campus enroll the student to allow the student to graduate?**

Yes. Former students should be enrolled and coded as "enrolled, not in membership" for the purpose of awarding a high school diploma.

**28. A student has passed two of the required five end-of-course assessments. May a district or charter school begin the IGC process prior to the student passing his third test?**

No. The IGC process is available only for those students who have failed no more than two end-of-course tests. Additionally, a student who does not make an attempt to take all required EOC assessments or an approved substitute assessment may not qualify to graduate by means of an individual graduation committee.

## HB 5: Other Frequently Asked Questions

### College Preparatory Courses

**1. Are high schools required to offer a college prep course?**

Under Section 28.014 of the Texas Education Code, each school district is required to partner with at least one institution of higher education to develop and provide college preparatory courses in English language arts and mathematics. However, each high school within the school district is not required to offer these courses.

**2. Are certain students required to enroll in college prep courses?**

No. School districts are required to provide notice to each student who meets eligibility criteria for a college preparatory course and the student's parent or guardian regarding the benefits of enrolling in the course. However, students are not required to enroll in college preparatory courses that are required in statute.

**3. Is a student required to take the Texas Success Initiative (TSI) to determine college readiness and placement in a college prep course?**

No. A district may use performance on coursework, a college entrance examination, or the TSI to determine that the student is not ready to perform entry-level college coursework.

**4. If a district chooses to use TSI to determine college readiness and placement in a college prep course, must a district pay for the TSI for students?**

The course required under TEC, §28.014 must be available free of charge to students. Students may qualify for the course based on performance on coursework, a college entrance examination, or the TSI. If the district chooses to use only the TSI to enroll students, it cannot require payment for access to the course.

**5. Is a student required to take the TSI to determine successful completion of a college prep course?**

State law does not explicitly require or prohibit the use of testing to determine successful completion of a college prep course described in TEC, §28.014. Whether a particular test is required, whether it is required only for the purpose of awarding dual credit, or whether there is no test at all is part of the flexibility HB5 provided to each school district in working with an institution of higher education.

**6. If a district chooses to use TSI to determine successful completion of a college prep course, must a district pay for the TSI for students?**

Yes. If the district chooses to use only the TSI to determine successful completion of the course, it cannot require payment for the TSI. If other standards involving grades or other exams are used, and TSI is not required for completion of the course, the district is not required to administer or pay for the TSI.

**7. What end-of-course assessment instrument would indicate that a student does not meet college readiness standards for purposes of Texas Education Code, §28.014?**

There is no longer a state assessment that would meet this purpose. The local development process may decide to use an assessment as part of the course, but is not required to do so.

**8. Can high schools offer college prep course to students who are not in the 12th grade?**

There is not a specific requirement that a student must be in 12th grade to take a college preparatory course. However, a student may not earn credit for the college preparatory math course until after the student has completed the three mathematics credit requirements for the Foundation High School Program.

**9. Can a student who remains on the current Recommended High School Program (RHSP) or the Distinguished Achievement Program (DAP) earn credit for a college preparatory course?**

No. Administrative rules do not allow for these courses to satisfy credit requirements for students on the RHSP or DAP. However, a student on the Foundation High School Program who successfully completes a college preparatory course may use the credit earned to satisfy an advanced mathematics credit or an advanced English credit.

**10. What is the relationship between the college preparatory courses referenced in Texas Education Code, §28.014 and §39.025(b-2)?**

Texas Education Code, subsection 39.025(b-2) does not apply to a course developed under section 28.014. While both statutes use the term "college preparatory course," they are different enactments and represent different local program options. There is currently no assessment available for a course under TEC, §39.025(b-2).

**11. If a student takes one of the college prep courses to attain college readiness, can the student take the new TSI and, if the student passes the TSI, will it satisfy the STAAR end-of-course assessment requirements as well as the TSI requirement?**

No. Neither of the college preparatory courses identified in statute satisfy the state assessment requirements for high school graduation.

**12. Can one college prep course in English satisfy both the requirements in Texas Education Code, §28.014, and in Texas Education Code, §39.025(b-2)?**

The courses described in TEC, §28.014, and TEC, §39.025(b-2), are different. There is currently no assessment available for a course under TEC, §39.025(b-2). It is anticipated that the STAAR English III and Algebra II assessments, when administered again beginning in spring 2016, will be able to serve the purpose of an assessment related to TEC, §39.025(b-2). At this time, however, there is not a way for a district to implement the 39.025(b-2) requirement without an available assessment.

**13. Must the college preparatory English course be a full-credit course?**

No. In accordance with TAC, §74.12(b)(1), the college preparatory English course may be a half-credit course that, when paired with another half-credit from the list of allowable advanced English courses, may satisfy the advanced English requirement for graduation.

#### **14. Must the college preparatory mathematics course be a full-credit course?**

Yes. In accordance with TAC, §74.13(e)(4), the college preparatory mathematics course must be a full credit course. However, in accordance with TAC, §74.26, in accordance with local district policy, students who are able to successfully complete only one semester of a two-semester course can be awarded credit proportionately. Consequently, a student may be awarded a half credit for successful completion of half of the college preparatory mathematics course. This half credit, when paired with another half credit from the list of allowable advanced mathematics courses, may satisfy the advanced mathematics requirement for students pursuing an endorsement.

#### **College Admission**

##### **1. If a student is on the Foundation High School Program only and does not earn an endorsement, does the student have to attend a community college before attending a four-year college?**

State law does not prohibit a student who graduates on the Foundation High School Program without an endorsement from attending a four-year college or university. However, a student graduating under the Foundation High School Program without an endorsement may not have met the eligibility requirements for a four-year college or university because colleges and universities set their own entrance requirements. A student would need to check with the specific college/university for information regarding admission requirements.

##### **2. Will computer science as a language other than English (LOTE) count for college admission as a foreign language?**

Colleges and universities set their own entrance requirements. Consequently, a student would need to check with the specific college/university for information regarding admission requirements.

#### **Available Course Options for All Graduation Programs**

Information regarding specific courses required or offered in each curriculum area will be distributed to students each spring in order to enroll in courses for the upcoming school year. Note that the district may require the completion of certain courses for graduation even if these courses are not required by the state for graduation.

Please be aware that not all courses are offered at every secondary campus in the district. A student who wants to take a course not offered at his or her regular campus should contact the school counselor about alternatives.

#### **State Rule Regarding Combining Credits in Graduation Programs**

A local school district can award credit proportionately to students who are able to successfully complete only one semester of a two-semester course. Unless the TAC specifically prohibits combining two half credits to satisfy a graduation requirement, in accordance with local district policy, a student may satisfy a graduation requirement for which there are multiple options with one-half credit of one allowable option and one-half credit of a second allowable option.

Prohibited combination credits:

- Minimum High School Program – a student may not combine a half credit of Algebra II with a half credit from another mathematics course to satisfy the final mathematics credit requirement.
- Minimum High School Program – a student may not combine a half credit of either World History Studies or World Geography Studies with a half credit from another academic elective course to satisfy the academic elective credit requirement.
- All Graduation Programs – a student may not combine a half credit of a course for which there is an end-of-course assessment with another elective to satisfy an elective credit requirement.

## Advanced Placement Course Substitutions

College Board Advanced Placement Courses may substitute for required courses in appropriate areas (TAC 74.11d). To assist with the identification of appropriate crediting of AP courses, a list of all AP course substitutions is below:

AP Courses and Course Numbers		Courses may be credited as:	Units of Credit
<b>ART</b>			
1043 A/B	AP Two-Dimensional Design Art (Painting/Drawing)	Fine Arts Credit or State Elective Credit	.5 - 1
1020 A/B	AP Three-Dimensional Design Art (Sculpture) Portfolio A/B	Fine Arts Credit or State Elective Credit	.5 - 1
1048 A/B	AP History of Art	Fine Arts Credit or State Elective Credit	.5 - 1
1041 A/B	AP Drawing A/B	Fine Arts Credit or State Elective Credit	.5
1473 A/B	AP Music Theory A/B	Fine Arts Credit or State Elective Credit	.5
<b>ENGLISH</b>			
3062 A/B	AP English Language & Composition A/B	Substitute for English III, IV or State Elective Credit	.5
3064 A/B	AP Literature & Composition A/B	Substitute for English III, IV or State Elective Credit	.5
<b>LANGUAGES/WORLD LANGUAGES</b>			
4081 A/B	AP Spanish Language and Culture A/B	Required Language Level or State Elective Credit	.5
4083 A/B	AP Spanish Literature A/B	Required Language Level or State Elective Credit	.5
4141 A/B	AP French Language and Culture A/B	Required Language Level or State Elective Credit	.5
4201 A/B	AP German Language and Culture A/B	Required Language Level or State Elective Credit	.5
4221 A/B	AP Latin Vergil A/B	Required Language Level or State Elective Credit	.5
4364 A/B	AP Chinese Language and Culture A/B	Required Language Level or State Elective Credit	.5
4256 A/B	AP Italian Language and Culture A/B	Required Language Level or State Elective Credit	.5
4286 A/B	AP Japanese Language and Culture A/B	Required Language Level or State Elective Credit	.5
<b>MATHEMATICS</b>			
7124 A/B	AP Calculus AB	Math Credit or State Elective Credit	.5
7126 A/B	AP Calculus BC	Math Credit or State Elective Credit	.5
7145 A/B	AP Statistics IA/B	Math Credit or State Elective Credit	1
	AP Precalculus	Math Credit	1
<b>SCIENCE</b>			
7590 A/B	AP Biology A/B	Science Credit or State Elective Credit	1
7610 A/B	AP Chemistry A/B	Science Credit or State Elective Credit	1
7625 A/B	AP Physics 1 A/B	Science Credit or State Elective Credit	1
7627 A/B	AP Physics 2 A/B	Science Credit or State Elective Credit	1
7618 A/B	AP Physics C: Electricity and Magnetism	Science Credit or State Elective Credit	1
7628 A/B	AP Physics C: Mechanics	Science Credit or State Elective Credit	1
7678 A/B	AP Environment Sci A/B	Science Credit or State Elective Credit	1
<b>SOCIAL STUDIES</b>			
8098 T	AP Macroeconomics IT	Substitute for Economics/or State Elective Credit	.5
8099 T	AP Microeconomics IT	Substitute for Economics/or State Elective Credit	.5
8127 T	AP Psychology IT	State Elective Credit	.5
8135 T	AP United States Government and Politics	Substitute for U.S. Government	.5
8037 A/B	AP Modern World History IA/B	Substitute for World History/or State Elective	1
8315 A/B	AP United States History IA/B	Substitute for U.S. History/or State Elective Credit	1
8219 A/B	AP European History IA/B	State Elective Only/NOT substitute for World	1
8078 T	AP Comparative Government and Politics	State Elective Credit	1
8003 A/B	AP Human Geography IA/B	Sub for World Geography/or State Elective Credit	1
8005T	AP Human Geography T	State Elective Credit	.5
	AP African American Studies	State Elective Credit	
<b>COMPUTER SCIENCES</b>			
2142 A/B	AP Computer Science A	Math (4 <sup>th</sup> Credit), LOTE credit, or Elective	2
2157 A/B	AP Computer Principles	LOTE or Elective credit	1
<b>SEMINAR &amp; RESEARCH COURSE</b>			
3065 A/B	AP Capstone: AP Seminar	State Elective Credit	.5
3067 A/B	AP Capstone: AP Research	State Elective Credit	.5



## OnRamps Course Substitutions

OnRamps Courses and Course Numbers		Courses may be credited as:	Units of High School Credits	Number of University Credits
<b>SOCIAL STUDIES</b>				
8049A	OnRamps United States History 1492 – 1865 A	Substitute for U.S. History Since 1877 A	.5	3
8049B	OnRamps United States History Since 1865 B	Substitute for U.S. History Since 1877 B	.5	3
8092T	OnRamps Economics with Emphasis on the Free Enterprise System and its Benefits	Substitute for Economics with Emphasis on the Free Enterprise System and its Benefits	.5	3
<b>SCIENCE</b>				
7613 AB	OnRamps Physics 1	Substitute for Physics (2 <sup>nd</sup> , 3 <sup>rd</sup> , or 4 <sup>th</sup> science credit)	1	4
STH03724AB	OnRamps Physics 2	3 <sup>rd</sup> or 4 <sup>th</sup> science credit	1	3
7597 AB	OnRamps Chemistry I	Substitute for Chemistry (2 <sup>nd</sup> , 3 <sup>rd</sup> , or 4 <sup>th</sup> science credit)	1	4
7534 AB	OnRamps Earth and Space Science	3 <sup>rd</sup> or 4 <sup>th</sup> science credit	1	3
7593 AB	OnRamps Chemistry II	3 <sup>rd</sup> or 4 <sup>th</sup> science credit	1	4
7591 AB	OnRamps Biology	3 <sup>rd</sup> or 4 <sup>th</sup> science credit	1	3
<b>ENGLISH</b>				
3044 AB	OnRamps Rhetoric and Writing	Substitute for English III	1	6
3045 AB	OnRamps Rhetoric and Writing	Substitute for English IV	1	6
<b>MATHEMATICS</b>				
7050 AB	OnRamps College Algebra	Substitute for Algebra 2	1	3
7119 AB	OnRamps PreCalculus	Substitute for PreCalculus	1	3
7146 AB	OnRamps Statistics	Substitute for Statistics	1	3
TBD	OnRamps Quantum Computing	Substitute for Honors Mathematical Modeling using Computer Science	1	3
<b>COMPUTER SCIENCE</b>				
2159 AB	OnRamps Computer Science	State Elective	1	3
<b>FINE ARTS</b>				
1073 AB	OnRamps Art IV: Arts and Entertainment Technologies	Fine Arts Graduation requirement	1	3

## Dual Credit Course Substitutions

Approved FWISD dual credit courses may substitute for required courses in appropriate areas and when successfully completed will receive weighted credit for the student's GPA.

### Course Prerequisites

A student may not be enrolled in a course that has a required prerequisite unless the student:

1. Has completed the prerequisite course(s)
2. Has demonstrated equivalent knowledge as determined by the school district; or
3. Was already enrolled in the course in an out-of-state, an out-of-country, or a Texas nonpublic school and transferred to a Texas public school prior to successfully completing the course.

A district may award credit for a course to a student who completed the course without having met the prerequisites if the student completed the course in an out-of-state, an out-of-country, or a Texas nonpublic school where there was not a prerequisite.

## **State Rule Regarding All Graduation Programs for Out-of-State or Out-of-Country Transfer Students**

An out-of-state or out-of-country transfer student (including a foreign exchange student) or a transfer student from a Texas nonpublic school is eligible to receive a Texas Diploma, but must complete all requirements to satisfy state graduation requirements. Any course credit required that is not completed by the student before he or she enrolls in a Texas school district may be satisfied through provisions such as using correspondence courses, distance learning, and credit by examination or completing the required course.

Courses offered for dual credit in the core curriculum of an institution of higher education that cover all of the essential knowledge and skills for a course required for graduation may be substituted for courses required in the foundation curriculum and for languages other than English in all three high school graduation programs.

## **HIGHEST-RANKING GRADUATE – STATE DESIGNATION & CRITERIA**

The highest-ranking graduate is the student at each high school campus who has received the local honor of valedictorian. This student will receive a Highest-Ranking Graduate Certificate and free tuition to a Texas public college or university during both semesters of the first regular session immediately following the student's high school graduation. [See §54.201 of the Texas Education Code]

After all grades have been posted, a designated individual at each campus will use the PDF form provided by TEA to print out a certificate for the graduate on at least 65 lb. stock paper. The principal and superintendent will sign the certificate.

The designated individual from each campus will also need to complete an online survey to submit the highest-ranking graduate information to TEA. There is an optional field noting the public college your highest-ranking graduate will be attending; complete this section if the information is available. TEA will forward this information to the college, and the student will not need a Declaration document.

If the name of the public college that the highest-ranking graduate will attend is not known, the designated individual from each campus will complete a Declaration PDF form. The form is available from the link on the survey. Ensure that the student receives a copy of the Declaration form to present to the college admissions office of attendance. Detailed instructions with a link to the survey will be provided annually to each campus principal by the Academic Advisement Department.

## **Highest Ranking Graduate FAQs from TEA**

**Our valedictorian is not the highest-ranking graduate of their senior class because a student transferred in and has a higher GPA. Can we give the certificate to the valedictorian instead since that student has been at our high school all four years?**

You must follow your district's policy for determining the highest-ranking graduate. The law clearly states that the award should be given to the highest-ranking graduate based on policy.

**Our highest-ranking graduate is going to college out of state, and therefore won't be able to benefit from this certificate. Can we instead give it to the next student in line who will be going to a Texas public institution of higher education?**

No, the certificate should be awarded only to the highest-ranking graduate. The highest-ranking graduate, who initially chooses to go out of state or a private school, may choose to attend a Texas public college or university after their first semester.

**We have an exact tie for the highest-ranking graduate. Can we issue more than one certificate?**

You can allow for a tie between two students; however, in no circumstances should more than two awards be issued.

**My son/daughter is the valedictorian, but not the highest-ranking graduate. How do the schools determine who is the highest-ranking graduate?**

School districts set their own policy to determine class rank. It is a local decision and each school district will not have the same policy for determining class rank. If parents are concerned or want to know more about how their child is ranked, they need to contact the local school district and ask about their policy. The Texas Education Agency has absolutely no say in determining class rankings.

**How do I find a list of schools eligible for the highest-ranking graduate award?**

All public schools, charter schools accredited by TEA, and private schools accredited by the Texas Private School Accreditation Commission may provide one highest-ranking graduate per graduating class.

**How do I obtain the funds for tuition? Who provides the funds for the tuition?**

The institution of higher education you attend waives the tuition fee; therefore, no direct funds are provided.

**Does the award cover books, supplies, room and board, meal plans, etc.?**

The award only covers the cost of tuition. Tuition does not cover fees, books, supplies, room and board, meal plans or personal expenses.

**Is the college or university required to honor the tuition waiver for the 2<sup>nd</sup> semester regardless of the student's situation?**

No, the institution of higher education may have requirements such as a minimum grade point average in order to continue receiving the tuition waiver. You should verify with the college or university if they have any such requirements. <http://www.statutes.legis.state.tx.us/Docs/ED/htm/ED.54.htm#54.2001>

## HONORS LEVEL COURSES

Honors level courses include Honors, formerly titled Pre-AP, Advanced Placement (AP), Advanced Technical Credit, OnRamps Dual Enrollment, and Dual Credit Courses.

Secondary students who are formally identified as gifted/talented and those with the potential to achieve high levels are expected to take advanced level classes that are commensurate with their abilities and interests.

Middle School and High School student statements of expectations for advanced level courses, Honors, Advanced Placement classes have been created. Postsecondary Specialists and Counselors will discuss with students these expectations and commitment required for these courses. The Advanced, Accelerated, and Innovative Learning (AAIL) Department will provide student forms to be used to help foster student commitment. **See “High School Statement of Expectations for Advanced Level Courses” form in the Forms section.** In accordance with state and local policy, identified students are to be served through advanced academic offerings or the appropriate procedures are to be followed for furloughing or exiting students from the gifted program.

### Timeline to Enroll in an Honors Level Course

A student may enter an advanced level course sequence at the beginning of any semester based on his/her interest and identified potential.

All students taking Honors, Advanced Placement, OnRamps, and Dual Credit courses must be enrolled in the course no later than 10 days from the first day of classes or within 10 days of the students enrolling in the school.

### Credentials for Teachers Who Teach Honors Level Courses

Teachers who teach Honors, AP, or OnRamps courses should have specialized training. Prior to providing instruction in an Honors, Advanced Placement or International Baccalaureate core academic class, the teacher must complete the state mandated thirty hours of training for gifted education certification.

The training for all Honors and AP teachers will be completed through the Fort Worth ISD Advanced Academic Services thirty-hour academy. AP teachers should complete their hours through a weeklong AP Summer Institute, AVID Summer Institute, Laying the Foundation and 12 hours of Common Understanding/ Assessment and Identification/Nature and Needs/Social and Emotional offered by FWISD Advanced Academic Services.

To maintain local certified status, annually the teacher must complete an additional six hours of gifted education staff development preceding the start of the school year. In order to ensure quality instruction and college level content, College Board requires each teacher of an AP course to submit a syllabus for approval through the AP Course Audit. Only those teachers with an approved syllabus may use the trademarked course designation of “AP”.

### Exit Procedures for Honors Level Courses

Prior to the end of the first six weeks of the course, a student-teacher-parent conference must be held for students failing to maintain a passing grade of 70. Options to be discussed at the conference include:

Developing a plan for the improvement of the student's performance that includes alternative instructional strategies, tutorials, and specific target dates for progress reports to student and parent; or

Exiting the student from the course and placing the student in another appropriate course.

Any recommendations to move students from Honors, OnRamps, AP, or IB courses after the first six weeks of instruction are to be made only after a conference that includes student, teacher, parent, coordinator and principal. Final approval for any advanced level course withdrawal must be acquired from the principal. If the decision is made to remove the student, an Exit form must be completed and signed by all parties.

Honors, Advanced Placement (AP), and OnRamps courses are described within specific course descriptions along with requirements for admittance. The counselor(s) are to be consulted regarding any dual credit course being dropped.

## High School Courses Available in Middle School

Some high school courses are available in middle school. To be eligible to take these courses, students must have satisfactorily completed the middle school prerequisite course(s) or have passed the appropriate Credit by Examination for the middle school prerequisite course(s). Credit toward high school graduation will be placed on the academic achievement record (transcript) upon successful completion of the courses. For the graduating classes of 2022 and 2023, grades earned in middle school will not be calculated into the student's high school grade point average (GPA), except for AP courses taken in middle school. Beginning with the graduating class of 2024, if a student does not take 4 courses of math, ELAR, science, or social studies in high school, grades in high school courses taken in middle school may be used in the calculation of Class Rank.

Check with the middle school counselor to determine which courses are available at a particular campus.

## LOCAL GRADUATION HONORS

The District will calculate class rank at the end of the fifth six-week grading period of the senior year after receiving grades for dual credit courses to determine local graduation honors. The average of the fourth and fifth six-week grades will be used as the semester grade for the purpose of determining local graduation honors.

For schools on an accelerated block schedule, the District shall calculate class rank at the end of the third nine-week grading period of the senior year. The grade for the third nine-week grading period shall be used as the semester grade for this purpose.

### Valedictorian and Salutatorian – Local Honor & Criteria

The valedictorian and salutatorian are the eligible students with the highest and second highest ranking, respectively at the end of the 5<sup>th</sup> six-weeks. To be eligible for such recognition, a student must:

- Have completed the Foundation Program with the distinguished level of achievement;
- Have completed 19 credits before the first day of the school year in which graduation requirements are completed; and
- Have been continuously enrolled in the same high school in the District for the two school years immediately preceding graduation.

In case of a tie in core GPAs after calculation to the third decimal place, the District will then consider weighted GPAs. If the tie is not broken after applying these methods, the District shall recognize all students involved in the tie as sharing the honor and title.

Please note that a once final grades are calculated, the rankings may have changed from those calculated at the end of the 5<sup>th</sup> six-weeks. However, if this occurs, this will not change the award for Valedictorian or Salutatorian.

The student meeting the local eligibility criteria for recognition as the valedictorian shall also be considered the highest-ranking graduate for purposes of receiving the honor graduate certificate from the state of Texas.

## Latin Honors

Local class rank Latin honors at each District high school will be awarded to students completing the Recommended Program, the Advanced/Distinguished Achievement Program, or the foundation program with the distinguished level of achievement, as follows:

Summa Cum Laude	The top highest two percent of the graduating class
Magna Cum Laude	The next highest three percent of the graduating class
Cum Laude	The next highest five percent of the graduating class

To calculate the students eligible for Latin Honors:

- Obtain a class list from the Division of Technology of all seniors, not just potential graduates.
- The list is generated after the fifth six-week grades are entered and grades for dual credit courses have been received and entered.
- The same list is used to determine the Valedictorian and Salutatorian.
- From the list, calculate the top ten percent of students, rounding up. Divide the top 10% into the respective Latin Honors categories

Example:

No. of Seniors	Top 10%	Summa Cum Laude	Magna Cum Laude	Cum Laude
200	20	Top 2% = 4	Next 3% = 6	Next 5% = 10
385	$38.5 = 39$	$\text{Top } 2\% \times 385 = 7.7 = 8$	$\text{Next } 3\% \times 385 = 11.55 = 12$	$\text{Next } 5\% \times 385 = 19.25 = 19$

# MIDDLE SCHOOL COURSE REQUIREMENTS

## Middle School Course Requirements

Course/Grade	6	7	8
English	1	1	1
Mathematics	1	1	1
Science	1	1	1
Social Studies	1	1	1
Physical Education	0.5 <sup>a</sup>	0.5 <sup>a</sup>	0.5 <sup>a</sup>
Health Education	0.5 <sup>a</sup>		
Fine Arts	1 <sup>b</sup>	B	B
Electives	0.5 <sup>c</sup>	1 – 2 <sup>c</sup>	1 – 3 <sup>c</sup>

a – Moving to Wellness is a two-semester course required by all Grade 6 students. It fulfills both Health and Physical Education requirements.

b – The Middle School Fine Arts requirement may be satisfied by taking one TEKS-based fine arts course in art, band, choir, orchestra, or theatre arts during the students’ middle school years. It is recommended that the requirement be met in Grade 6.

c – Students may take a locally developed elective, not to exceed one semester in Grade 7 or Grade 8 or a total of 1.5 semesters in grades 6 – 8.

## Importance of Courses Taken In Middle School

Middle school courses provide a strong foundation for success in high school and beyond. Students should plan to take the most rigorous courses available at middle school while being mindful of the various advanced course offerings that will meet prerequisite requirements for the continuation of advanced course work in high school.

## Middle School Course Acceleration

Chapter 74 of the Texas Education Code requires students to master the TEKS in all required middle school courses. If a student wishes to place out of a course, or to accelerate through a required course, a student can accomplish this by:

- successfully completing a Board approved course that compacts the curriculum or
- taking a credit-by examination (CBE) with an 80% score (70% or better with acceptable documentation of “prior instruction”) to place out of any course. See the CBE Section for additional details and policies EHDB (LOCAL) and EHDC (LOCAL).

## Middle School Course Acceleration in Social Studies

The Honors social studies courses in Grades 6, 7, and 8 do not compact the required TEKS. To place out of any social studies course, a student must pass the appropriate CBE prior to advancing to the new grade-level course.

# NATIONAL COLLEGIATE ATHLETIC ASSOCIATION (NCAA) ELIGIBILITY AND PARTICIPATION INFORMATION

Please contact your district web-based coordinator before assigning student athletes to web-based courses for credit recovery or original credit.

The NCAA is made up of more than 1,200 member schools classified in three divisions (Division I has 400 schools, which are divided into two subdivisions for football, 1-A and 1-AA, and compete at the major-college level; Division II has 326; and Division III has 513). Division I and II schools offer athletic scholarships. Eligibility for financial aid, practice and competition at Division III schools is governed by school, conference, and other NCAA regulations.

The NCAA has established academic rules that will be used to determine whether the student-athlete may participate in sports during his/her first year in college. These rules are **not** a guide for admission to college. Each NCAA member school has its own admission requirements. Remember, meeting the NCAA rules does **not** guarantee admission to college. The student-athlete **must** still apply for admission and be accepted by the college.

## NCAA Eligibility Center

The Eligibility Center evaluates the student-athlete's academic record to determine if he/she is eligible to participate in a Division I or II college as a freshman student-athlete. The eligibility center is not the NCAA, but an organization that performs services to determine student-athlete's initial eligibility for the NCAA. From the NCAA clearinghouse website (<https://web3.ncaa.org/ecwr3/register/CERTIFICATION>), student-athletes may access current information needed to understand the Division I and Division II eligibility requirements, register with the clearinghouse, and access individual clearinghouse records.

## Division I Academic Eligibility

To be eligible to compete in NCAA sports during the first year at a Division I school, the student must graduate high school and meet ALL the following requirements:

- Complete 16 core courses:
  - Four years of English
  - Three years of math (Algebra I or higher)
  - Two years of natural/physical science (including one year of lab science if offered by high school)
  - One additional year of English, math, or natural/physical science
  - Two years of social science
  - Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- Complete 10 core courses, including seven in English, math, or natural/physical science, before the seventh semester. Once a student begins the seventh semester, the student may not repeat or replace any of those 10 courses to improve core-course GPA.
- Earn at least a 2.3 GPA in core courses.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale, which balances a student's test score and core-course GPA. If the student has a low test score, the student needs a higher core-course GPA to be eligible. If the student has a low core-course GPA, the student needs a higher test score to be eligible.



## **Division II Academic Eligibility**

To be eligible to compete in NCAA sports during the first year at a Division I school, the student must graduate high school and meet ALL the following requirements:

- Complete 16 core courses
  - Three years of English
  - Two years of math (Algebra I or higher)
  - Two years of natural/physical science (including one year of lab science if offered by high school)
  - Three additional year of English, math, or natural/physical science
  - Two years of social science
  - Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion, or philosophy
- Earn at least a 2.2 GPA in core courses.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II sliding scale, which balances a student's test score and core-course GPA. If the student has a low test score, the student needs a higher core-course GPA to be eligible. If the student has a low core-course GPA, the student needs a higher test score to be eligible.

## **Division III Academic Eligibility**

The above requirements do not apply to Division III colleges. Eligibility for financial aid, practice and competition at Division III schools is governed by school, conference, and other NCAA regulations. Contact the Division III school for complete policies.

## **Classes that are not NCAA Core Courses:**

- Classes in non-core areas, fine arts, or vocations such as driver education, typing, art, music, physical education, or welding.
- Personal skill classes, such as personal finance or consumer education.
- Classes taught below grade level, at a slower pace, or with less rigor or depth. These classes are often titled basic, essential, fundamental, or foundational.
- Classes that are not academic in nature, such as film appreciation, video editing, or greenhouse management.

## **Courses Taken Prior to Ninth Grade**

If a high school class such as Algebra I or Spanish I is taken prior to the ninth grade, the class may count for the 16 core courses if it is on the high school's list of approved core courses and is shows on the high school transcript with a grade and a credit.

## **Credit-By-Exam**

Courses completed through credit-by-exam will not be used in an initial-eligibility certification.

## **Pass/Fail Courses**

Core courses that receive a grade of "Pass" may satisfy core-course requirements if the course receives credit toward graduation.

## Studies in a Foreign Country

If a student attended a secondary school outside of the United States for all or part of grades nine through 12, different evaluation procedures will be applied to the international education documents. Original-language documents with certified translations must be submitted for evaluation.

## High School Transcripts for Eligibility Center

Transcripts should not be sent to the eligibility center until after the junior year and must be mailed directly by the high school. Any grade corrections, course title changes, and credit additions regarding high school course work must be made before a final transcript is mailed by the high school. Once the eligibility center receives a final transcript, it will not use an amended transcript.

All approved Fort Worth ISD core courses appear on the high school's list, which can be viewed at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net). Click on "Prospective Student-Athlete" and then on "List of Approved Core Courses."

## General Information on the NCAA Eligibility Center

- Links to the NCAA website;
- Core-Course listings for high schools
- Online versions of *NCAA Guide for the College Bound Student Athlete*;
- Online information about Division I and Division II initial eligibility requirements;
- Online FAQs

## NCAA Contact Information

The NCAA offers information on initial eligibility standards, the Initial-Eligibility Clearinghouse, recruiting rules, and other information via a toll-free number and websites:

- Online at [www.ncaa.org](http://www.ncaa.org)
- NCAA Hotline: 1.800.638.3731
- NCAA Eligibility Center Line (M-F, 8 a.m. – 5 p.m. CST) 1.877.262.1492
- NCAA Eligibility Center 24-hour Voice Response System: 1.877.861.3003
- Students and parents have access to valuable website with information about the recruiting process and eligibility for competition at the college level
- Website: [www.corecourseGPA.com](http://www.corecourseGPA.com) (contact any coach for details)

# PLACEMENT OF STUDENTS ENTERING THE DISTRICT

## Accredited Schools

The parent or guardian of a student enrolling in the District from an accredited public, private, or parochial school shall provide evidence of prior schooling outside the District. The student will be placed initially at the grade level reached elsewhere, pending observation by the classroom teacher, guidance personnel, and the principal. On the basis of these observations and results of tests that may be administered by appropriate District personnel, the principal shall determine final grade placement.

Accredited is defined as accreditation by TEA, an equivalent agency from another state, or an accrediting association recognized by the commissioner.

## Non-Accredited Schools

A student enrolling in a District school from a nonaccredited public, private, or parochial school, including homeschools, will be placed initially at the discretion of the principal, pending observation by classroom teachers, guidance personnel, and the principal. Criteria for placement may include:

- Scores on achievement tests, which may be administered by appropriate District personnel.
- Recommendation of the sending school.
- Prior academic record
- Chronological age and social and emotional development of the student.
- Other criteria deemed appropriate by the principal.

Before granting credit, the District will validate, by a Credit by Exam (See CBE Section) or other evidence, that any course taken by a student at a nonaccredited public, private, or parochial school meets State Board requirements.

## Guidelines for All Students Transferring

- A student who has honors classes on his or her transcript from another district will be awarded honors credit if the honors course is currently taught in the FWISD.
- Confer with the student to determine the content of any course in question and to the Texas Essential Knowledge and Skills if necessary. The subject program director may also be contacted for assistance. If the content equates to that of a FWISD course, credit may be given.
- Students who wish to receive state credit for a course that cannot be equated with a FWISD course may apply to take the credit-by-examination test when available.
- Counselors who cannot make proper determinations for courses should contact the Guidance and Counseling Department

## Conversion of Letter Grades to Numeric Grades

When a student transfers grades for properly documented courses from an accredited U.S. or foreign public or private institution, the District shall assign weight to those grades based on the categories and grade weight system used by the District if similar or equivalent courses are offered to the same class of students in the District.

Conversion of letter grades to numerical grades for students transferring into the District with letter grades are as follows:

A+ = 99	B+ = 89	C+ = 79	
A = 96	B = 86	C = 76	
A- = 92	B- = 82	C- = 72	F = 60

If a student is transferring from a Texas school district or Texas charter school and has a "D" letter grade equivalent to a 70, credit will be awarded for the course per Texas Education Rule, 19TAC§74.26 (a)&(c).

Grades earned in non-accredited schools shall be handled in accordance with FD (LOCAL).

Students from non-public, out-of-state, or out-of-country schools may have transcripts that record a "D" letter grade and award credit for courses with a grade numeric value lower than the Texas passing standard of 70. Per TEA staff references to the Academic Achievement Record (AAR) Minimum Standards, section 1.15, the District has determined that for a "D" letter grade with a numeric value lower than a 70, a "P" will be recorded as the transfer grade.

Transfer students from non-accredited public, private, parochial schools or who have been home-schooled shall be offered an opportunity to demonstrate mastery in a subject or to earn course credit. (See CREDIT BY EXAMINATION for additional information.)

## **Q&A Provided by the TEA Division of Curriculum for a Counselor TETN, Spring 2012**

### **1. How do students transferring to a Texas public school from an out-of-state, and out-of-country, or a Texas non-public school receive credit for coursework they have already completed?**

Districts are to follow the rules in TAC, §74.26 when determining what credit to award to a student transferring in from a non-Texas-public school. A school district must ensure that the records or transcripts of an out-of-state or out-of-country transfer student (including foreign exchange students) or a transfer student from a Texas nonpublic school are evaluated and that the student is placed in appropriate classes promptly. The district may use a variety of methods to verify the content of courses for which a transfer student has earned credit.

### **2. Can a school refuse to award credit earned by a student while attending a Texas charter school?**

No, please see TAC, §74.26 (a)(1): Credit earned toward state graduation requirements by a student in an accredited school district shall be transferable and must be accepted by any other school district in the state.

### **3. Can a school refuse to award credit earned by a student while attending Texas Tech or UT Austin online school?**

No. Please see TAC, §74.26(a)(1): Credit earned toward state graduation requirements by a student in an accredited school district shall be transferable and must be accepted by any other school district in the state.

### **4. Can a school refuse to award credit earned by a student while attending another Texas public school during summer or in grades before high school?**

No, please see TAC §74.26(a)(1): Credit earned toward state graduation requirements by a student in an accredited school district shall be transferable and must be accepted by any other school district in the state.

## PROMOTION AND RETENTION

A student will be promoted only on the basis of academic achievement or demonstrated proficiency in the subject matter of the course or grade level, the recommendation of the student's teacher, the score received on any criterion-referenced or state-mandated assessment, and any other necessary academic information as determined by the district.

In addition, at certain grade levels a student—with limited exceptions—will be required to pass the State of Texas Assessments of Academic Readiness (STAAR), if the student is enrolled in a public Texas school on any day between January 1 and the date of the first administration of the STAAR.

### Elementary and Middle/Junior High Grade Levels

If a student in grades 3–8 is enrolled in a class or course intended for students above his or her current grade level in which the student will be administered a state-mandated assessment, the student will be required to take the applicable state-mandated assessment only for the course in which he or she is enrolled, unless otherwise required to do so by federal law.

[See **Standardized Testing** for more information.]

Certain students—some with disabilities and some classified as English language learners—may be eligible for exemptions, accommodations, or deferred testing. For more information, see the principal, school counselor, or special education director.

### High School Grade Levels

To earn credit in a course, a student must receive a grade of at least 70 based on course-level or grade-level standards.

A student in grades 9–12 will be advanced a grade level based on the number of course credits earned. [Also, see **Grade Level Classification** for more information.]

Students will also have multiple opportunities to retake EOC assessments. [See **Graduation** and **Standardized Testing** for more information about EOC assessments.]

# STANDARDIZED TESTING

## Secondary Grade Levels

### **SAT/ACT (Scholastic Aptitude Test and American College Test)**

Many colleges require either the American College Test (ACT) or the Scholastic Aptitude Test (SAT) for admission. Students are encouraged to talk with the school counselor early during their junior year to determine the appropriate exam to take; these exams are usually taken at the end of the junior year. The Preliminary SAT (PSAT) and ACT-Aspire are the corresponding preparatory and readiness assessments for the SAT and ACT, and more information can be obtained on these assessments from the school counselor.

Note that participation in these assessments may qualify a student to receive a performance acknowledgment on his or her transcript under the foundation graduation program and may qualify as a substitute for an end-of-course testing requirement. A student's performance at a certain level on the SAT or ACT also makes the student eligible for automatic admission to a Texas public institution of higher education.

### **TSI (Texas Success Initiative) Assessment**

The Texas Success Initiative Assessment (TSIA) is a part of the Texas Success Initiative program designed to help colleges and universities determine if students are ready for college-level course work in the areas of reading, writing, and mathematics. Incoming Texas college students are required to take the TSI Assessment unless the student is exempt. Based on how the student performs, the student may either be enrolled in a college-level course and/or be placed in the appropriate developmental course or intervention to help improve skills and prepare the student for success in college-level courses.

### **TSI Assessment Exemptions**

- Score a 23 or higher on the ACT composite and a minimum of 19 on both the English and math tests on an ACT taken prior to March 3, 2023;
- On an ACT administered after March 2023, a student must achieve a combined score of 40 on the English and Reading (E + R) tests to be exempt from both reading and writing or ELAR sections of the TSI Assessment.
- On an ACT administered after March 2023, a student must achieve a minimum score of 22 on the mathematics for an exemption in math. There is no composite score.
- SAT administered prior to March 2016: Earned a combined (verbal critical reading + math) SAT score of 1070, with a minimum score of 500 on both sections;
- SAT administered March 2016 and later: Evidenced-Based Reading and Writing (EBRW) minimum score of 480; Mathematics minimum score of 530 (no combined score needed);
- TAKS scale score of at least 2200 on the math section and/or 2200 on the English Language Arts section with a writing subsection score of at least 3;
- Veterans, active duty personnel, and a student who is serving as and, for at least 3 years preceding enrollment, has served as a member of a reserve component of the U.S. armed services;
- Transfer from another institution having satisfactorily completed college-level coursework; or
- Enroll in a certificate program of one year or less (Level One certificates) at a public institution.

## College Ready Scores for the TSI Assessment

- Reading – 351
- Mathematics – 350
- Writing –
  - A placement score of at least a 340, and an essay score of at least 4; OR
  - A placement score of at least 340 and an ABE Diagnostic level of at least 4 and an essay score of at least 5.

## STAAR (State of Texas Assessments of Academic Readiness)

### Grades 3–8

In addition to routine tests and other measures of achievement, students at certain grade levels are required to take the state assessment, called STAAR, in the following subjects:

- Mathematics, annually in grades 3–8
- Reading, annually in grades 3–8
- Science in grades 5 and 8
- Social Studies in grade 8

STAAR Alternate 2, for students receiving special education services who meet certain state-established criteria, will be available for eligible students, as determined by the student's ARD committee.

### Assessments for Middle School Students Receiving Instruction in a Different Grade Level

Students should be administered the STAAR assessments that align to the level of TEKS instruction that they are receiving regardless of their enrolled grade level. For example, middle school grade 7 students enrolled in grade 8 level science, or FWISD course 0303AB, 7<sup>th</sup> Grade Honors Science, Accelerated Course will take the grade 8 STAAR Science assessment.

Middle school students enrolled in a high school course for which an End of Course (EOC) assessment exists (English I, English II, Biology, or Algebra I) are required to take the EOC for the respective course. Passing these EOC examinations will count toward the student's high school graduation testing requirement. Middle school students who take a STAAR EOC test in middle school will not be required to also take the corresponding STAAR grade level subject area test.

For example, a Grade 8 student enrolled in Algebra I will take the following tests:

- STAAR Grade 8 RLA
- STAAR Grade 8 Science
- STAAR Grade 8 Social Studies
- STAAR EOC Algebra I

If a student in grades 5 – 8 is enrolled in a high school course that does not have a corresponding STAAR EOC assessment:

- Mathematics & Reading: - Students will be required to take their grade-level STAAR assessment when there is not a STAAR EOC assessment in the high school course they are taking. Federal law requires a student in grades 3 – 8 to annually be assessed in mathematics and reading. Therefore, a grade 8 student enrolled in Geometry will take the STAAR grade 8 mathematics assessment.

- Science – Students in grades 5 and 8 are required to take their grade-level STAAR assessment in science at least once in elementary and once in middle school.
- Social Studies – Students in grade 8 who are taking a high school social studies course would not be required to take their grade-level assessment, unless they have not yet taken it, because there is no federal requirement to test social studies.

### ***High School Courses—End-of-Course (EOC) Assessments***

STAAR end-of-course (EOC) assessments are administered for the following courses:

- Algebra I
- English I and English II
- Biology
- U.S. History

Satisfactory performance on the applicable assessments will be required for graduation, unless otherwise waived or substituted as allowed by state law and rules.

There are three testing windows during the year in which a student may take a STAAR EOC assessment: fall, spring, and summer. If a student does not meet satisfactory performance, the student will have additional opportunities to retake the assessment.

STAAR Alternate 2, for students receiving special education services who meet certain criteria established by the state, will be available for eligible students, as determined by the student's ARD committee.

An ARD committee for a student receiving special education services will determine whether successful performance on the EOC assessments will be required for graduation within the parameters identified in state rules and the student's personal graduation plan.

A student who receives credit for a course taken through the Texas Virtual School Network or through a dual credit program must take the corresponding STAAR EOC assessment to fulfill the testing graduation requirement.

[Also, see **Graduation** for additional information.]

### **A student who takes an EOC course and passes the EOC test, but fails the course:**

- Will take a CBE for the EOC course to acquire credit for the course. The student must score a grade of 70 or above to earn credit.
- The CBE score is recorded on the transcript and coded with a "T", and
- The passing EOC test result is noted on the transcript

### ***STAAR Frequently Asked Questions (FAQs) Provided by TEA; May 2016***

#### **1. What are the testing requirements for a foreign exchange student? (FAQ 12)**

A foreign exchange student is required to take STAAR EOC assessments for courses in which he or she is enrolled. However, the student is not required to retest unless he or she is planning to earn a Texas high school diploma.

#### **2. What types of substitute assessments can students use to fulfill their STAAR graduation requirements? (FAQ 26)**

To satisfy their testing requirements for graduation, students can use multiple assessments (e.g., AP, IB, SAT,



ACT) in place of STAAR EOC assessments. Details on which assessments can currently be used for this purpose are provided below:

## ACT Substitute Assessments

Substitute Assessment	STAAR Algebra I		STAAR Biology		STAAR English I		STAAR English II		STAAR U.S. History	
	Assessment	Passing Score	Assessment	Passing Score	Assessment	Passing Score	Assessment	Passing Score	Assessment	Passing Score
<b>ACT<sup>^</sup>*</b> - June 2015 and Before	Mathematics	22			Reading	21	Reading	21		
					Combined English/Writing	18	Combined English/Writing	18		
<b>ACT<sup>^</sup></b> - September 2015 and After	Mathematics	22	Science	23	Reading	22	Reading	22		
					English	18	English	18		
<b>Aspire 9</b>	Mathematics	428								
<b>Aspire 10</b>	Mathematics	432								
<b>PLAN</b>	Mathematics	19								

<sup>^</sup> Satisfactory scores on ACT Reading and English or Reading and Combined English/Writing assessments may be used in place of either the STAAR English I EOC or the STAAR English II EOC, but not both.

\* To use the ACT, a student must have taken and received a satisfactory score on both sections of the ACT English language arts assessment.

## SAT Substitute Assessments

Substitute Assessment	STAAR Algebra I		STAAR Biology		STAAR English I		STAAR English II		STAAR U.S. History	
	Assessment	Passing Score	Assessment	Passing Score	Assessment	Passing Score	Assessment	Passing Score	Assessment	Passing Score
<b>PSAT 8/9 or PSAT/NMSQT in 9<sup>th</sup> Grade</b> – October 2015 and After	Mathematics	450			Evidence-Based Reading & Writing	410				
<b>PSAT 10 or PSAT/NMSQT in 10<sup>th</sup> Grade</b> – October 2015 and After	Mathematics	480			Evidence-Based Reading & Writing	430				
<b>PSAT/NMSQT in 11<sup>th</sup> Grade</b> – October 2015 and After	Mathematics	510			Evidence-Based Reading & Writing	460				
<b>PSAT</b> – 2014 and Before	Mathematics	47								
<b>SAT<sup>^</sup></b> - Administered March 2016 and After	Mathematics	530			Evidence-Based Reading & Writing	480	Evidence-Based Reading & Writing	480		
<b>SAT<sup>^</sup>*</b> - Administered January 2016 and Before	Mathematics	500			Critical Reading	500	Critical Reading	500		
					Writing	500	Writing	500		
<b>SAT Subject Tests</b>	Math Level 1 or Level 2	600	Biology – E or Biology – M	500					U.S. History	500

<sup>^</sup> Satisfactory scores on SAT Evidence-Based Reading and Writing or Critical Reading and Writing assessments may be used in place of either the STAAR English I EOC or the STAAR English II EOC, but not both.

\* To use the SAT administered in January 2016 or earlier, a student must have taken both the SAT Critical Reading and Writing assessment.

## AP, IB, and TSI Substitute Assessments

Substitute Assessment	STAAR Algebra I	STAAR Biology	STAAR English I	STAAR English II	STAAR U.S. History
	Assessment Passing Score	Assessment Passing Score	Assessment Passing Score	Assessment Passing Score	Assessment Passing Score
<b>AP</b>		Biology 3	English Language and Composition 3	English Language and Composition 3	U.S. History 3
<b>IB*</b>		Biology 4	Language A: Language & Literature 4	Language A: Language & Literature 4	History of the Americas 4
<b>TSIA** - January 10, 2021 and Before</b>	Mathematics 350		Reading 351 Objective Writing/Sentence Skills 340 Writing 4	Reading 351 Objective Writing/Sentence Skills 340 Writing 4	
<b>TSIA2** - January 11, 2021 and After</b>	Mathematics 950		English Language Arts 945 Essay 5	English Language Arts 945 Essay 5	

\* The set passing score for the IB substitute assessments applies to both Standard Level and Higher-Level examinations.

\*\* The TSIA and TSIA2 English language arts assessments are the only substitute assessment that may be used to simultaneously fulfill two EOC requirements. Satisfactory scores on the TSIA (Reading, Objective Writing/Sentence Skills, and Writing) or TSIA2 (English Language Arts and Essay) may be used in place of both the STAAR English I EOC and the STAAR English II EOC requirements in those cases described by subsection (d)(1) of this section. In all other cases, a satisfactory score on an approved substitute assessment may be used in place of only one specific STAAR EOC assessment.

### 3. What are the STAAR graduation requirements for students who earn course credit through distance learning programs, correspondence courses, or dual credit courses? (FAQ 29)

Students who earn Texas high school course credit through distance learning programs (e.g., the Texas Virtual School Network), correspondence courses, or dual credit courses are required to pass all five STAAR EOC assessments to fulfill their testing requirements for graduation.

### 4. What are the STAAR graduation requirements for students who earn course credit through Advanced Placement (AP) or International Baccalaureate (IB) courses? (FAQ 30)

Students who earn Texas high school course credit through an AP or IB course that is substituting for a TEKS-based course required for graduation (e.g., AP biology instead of TEKS-based biology) are required to take the STAAR EOC assessment. However, if the student is taking the AP or IB test, the student may be able to use the AP or IB test score instead of the STAAR EOC assessment score to fulfill his or her biology testing requirements for graduation. See the substitute assessments question above.

### 5. What are the STAAR graduation requirements for students who earn course credit through credit by examination (CBE)? (FAQ 31)

If a student uses CBE to gain credit for a course in which he or she has had some prior instruction based on TAC §74.24(c)(9), the student is required to pass the corresponding STAAR EOC assessment to fulfill his or her STAAR graduation requirement.

### 6. If a student fails the course but passes the STAAR EOC assessment, is the student required to retest when he or she retakes the course? (FAQ 34)

No. Once a student passes (approaches Grade Level or above) a STAAR EOC assessment, the student has fulfilled that part of his or her graduation requirement and is not required to retest.

**7. If a student fails the course and fails the STAAR EOC assessment, does the student have to wait until he or she completes the entire course before retesting? (FAQ 35)**

No. The student has already received instruction in the entire course and is eligible to retest. The district must ensure that the student is provided an opportunity to test to meet his or her graduation requirement each time the assessment is offered.

**8. What testing options are available for English learners (ELs)? (FAQ 75)**

Spanish versions of STAAR are available for eligible students in grades 3–5. Language proficiency assessment committees (LPACs) must meet annually to make and document state assessment decisions for ELLs on an individual student basis.

**9. What is STAAR Spanish? (FAQ 76)**

STAAR Spanish is designed to measure the knowledge and skills of students who receive academic instruction in Spanish and can best demonstrate their learning through a Spanish language assessment. The mathematics and science questions are translated from English and adapted as necessary to ensure cultural and linguistic accessibility. Passages and questions for the reading test are developed uniquely in the Spanish language so that the Spanish language arts curriculum can be assessed in a more authentic and meaningful manner.

The English and Spanish versions of STAAR have the same test blueprint and assess the same TEKS student expectations. These documents can be found on the STAAR Resources webpage at <http://tea.texas.gov/student.assessment/staar/>.

**10. Are ELs who are enrolled in an English I or English II for Speakers of Other Languages (ESOL I or ESOL II) course required to take the STAAR English I or English II assessments? (FAQ 79)**

Yes. ELs enrolled in ESOL I or ESOL II are required to take the corresponding STAAR English I or English II assessment. However, in accordance with TAC §101.1007, eligible ELs only need to meet the passing standard on English II to fulfill their STAAR graduation requirements in English.

**11. What is the Texas English Language Proficiency Assessment System (TELPAS)? (FAQ 80)**

The Texas English Language Proficiency Assessment System (TELPAS) is designed to assess the progress that English language learners (ELLs) make in acquiring the English language. TELPAS measures this acquisition of English in alignment with the Texas English Language Proficiency Standards (ELPS) that are part of the Texas Essential Knowledge and Skills (TEKS). The ELPS are second language acquisition curriculum standards that support the ability of ELLs to acquire academic English while at the same time allowing them to engage meaningfully in regular, all English academic instruction at their grade level. Title III, Part A of the Elementary and Secondary Education Act (ESE) requires states to conduct annual statewide English language proficiency assessments for ELLs in grades K – 12 in the linguistic domains of listening, speaking, reading, and writing. Students receive a proficiency rating of beginning, intermediate, advanced, or advanced high in each of those linguistic domains. More information can be located here: <http://tea.texas.gov/student.assessment/ell/telpas/>.

## **THREE YEAR/EARLY GRADUATES**

Occasionally a student qualifies to graduate within three years. To qualify as a three-year graduate, the student must meet the following criteria:

- Complete state required testing;
- Be on target to earn enough credits to graduate in three years under the Foundation High School graduation program with endorsement;

Grade point averages for students who complete the high school graduation program requirements in fewer than four years will be figured according to the GPA chart in effect for the graduating class, regardless of the school year in which a student entered grade 9. [See EIC (LOCAL)] The early graduate's GPA will be used to determine the class rank within the class in which the student graduates.

A student considering an early graduation is required to meet with his/her counselor to determine if he/she has completed all requirements. A Fort Worth ISD Early Graduation Request Form is to be completed by the student. The student will be reclassified to a senior in the fall of his/her third year in high school. A student reclassified from 10<sup>th</sup> to 12<sup>th</sup> grade will miss his/her chance to take the PSAT for National Merit Recognition and forfeit the free opportunities to take the SAT and ACT school day test. The student will also forfeit any other junior level awards, such as the academic sweatshirt recognition.

See copies of the form in the Forms section.

## **TIMELINE FOR DROPPING COURSES OR CHANGING SCHEDULES**

Students may request a course change within the first ten days of school if on a traditional schedule, or first five days of school if on a block schedule.

An Add/Drop request made after the tenth day of class (or after five days if on a block schedule), will result in the grade of 60 being reported on the transcript and calculated into the GPA unless there are extenuating circumstances approved by the school principal or designee.

For special circumstances, a course request may be made after the deadline, but not after the 2<sup>nd</sup> or 4<sup>th</sup> six-week grading periods, with or without penalty, as determined by the principal or designee. Course changes made after the 2<sup>nd</sup> or 4<sup>th</sup> six-week grading periods will result in a 60 posted to the student's transcript.

An Add/Drop form must be completed and approved by the school principal or designee.

Level changes within the same course are not considered add/drop requests.

For example, moving from Honors English I to English I is a level change and would not result in a penalty. UIL eligibility may be affected. Grades earned in Honors or AP courses will be transferred to the academic course without any adjustment after the 10-day (or 5 day for block schedule) deadline.

Grades earned in the first three weeks of a dropped class can affect UIL eligibility.

A change to a course requires the student to assume the responsibility for the content of the entire course on the final examination.

For dual credit course changes, please see the Dual Credit section.

## **TRANSCRIPTS FOR SENIORS**

Transcripts for current seniors are distributed in September/October and at the end of January.

Two transcripts are available. The student can request a transcript with a class rank or without a class rank. Both transcripts will include the student's GPA. The transcript that omits the class rank will also omit the quartile.

A final transcript will be available in June after all senior grades have been posted.

Transcripts can be sent to colleges and universities directly through the district's post-secondary planning software. There is no limit to the number of requests that can be made nor is there a charge. The campus counselor or GO Center has additional information.

## **UNIVERSITY INTERSCHOLASTIC LEAGUE (UIL) NO PASS, NO PLAY WAIVERS**

A student shall be suspended from participation in any extracurricular activity sponsored or sanctioned by the District or the UIL after a grade evaluation period in which the student received a grade lower than a 70 in any class other than Exempt Courses. An Exempt Course is an AP, IB, OnRamps, Honors, or a dual credit course in the subject areas of English language arts, mathematics, science, social studies, economics, or a language other than English. Districts can identify additional honors courses.

A list of courses identified by the FWISD as Exempt Courses follow:



7628AB	AP Physics C: Mechanics A/B	4225AB	Honors Latin VIA/B
7618AB	AP Physics C: Electricity & Magnetism A/B	4072AB	Honors Spanish II AB
7613AB	OnRamps Physics I A/B	4072AB	Honors Spanish II AB
STH03724AB	OnRamps Physics II A/B	4077AB	Honors Spanish IIIA/B
7678AB	AP Environmental Science A/B	4326AB	Honors Spanish IVA/B
7707AB	Honors Astronomy IA/B	4080AB	Spanish (for Spanish speakers) IIIA/B, IVA/B
STH37202AB	Honors Scientific Research & Design A/B	4081AB	AP Spanish Language A/B
STH37212AB	Honors Scientific Research & Design IIA/B	4083AB	AP Spanish Literature A/B
STH37222AB	Honors Scientific Research & Design III A/B	4328AB	Honors Spanish V A/B
STH37302AB	Honors Engineering Design & Problem Solving A/B	4085AB	Honors Spanish VI A/B
STH30372AB	Proj Based Research in Botany & Sustain Hort A/B	4086AB	Honors Spanish VII A/B
HSH02062AB	Honors Anatomy and Physiology A/B	4087AB	Honors Spanish VIII A/B
STH03722AB	Intel Science Talent Search Year 1	4089AB	Honors Spanish VI: Business, Legal, & Medical Per VI A/B
STH03712AB	Intel Science Talent Search Year 2		
7591AB	OnRamps Biology A/B	<b>TECHNOLOGY APPLICATIONS</b>	
STH37201	Honors Principles of Technology A/B	2142AB	AP Computer Science A
HSH02071AB	Honors Medical Microbiology A/B	2157AB	AP Computer Science Principles
LAH29502AB	Honors Forensic Science A/B	2159AB	OnRamps Computer Science
HSH20801AB	Honors Pathophysiology A/B		
7709AB	Interaction of Radiation with Matter I A/B		
AGH00702	Honors Advanced Animal Science A/B		
AGH02102	Honors Advanced Plant & Soil Science A/B		
HTH23002	Honors Food Science A/B		
<p><i>*Approved FWISD Dual Credit courses only in the areas of ELA, Math, Science, Social Studies, and World Languages qualify as UIL No Pass, No Play course waivers, but are not listed above. See Dual Credit courses on FWISD AAIL website for these courses. All AP courses in all subject areas, even if not listed above, qualify as UIL No Pass, No Play Waiver courses.</i></p>			

## WEB-BASED CURRICULUM PROGRAM USED FOR COURSE-CREDIT

FOCUS course numbers have been established to register students for web-based course sessions. See the chart below displaying the title “Web-Base” (WEB) course numbers to be used:

Long Title	Short Title	Course Number	Additional Information
WEB-BASED A	WEB A	0555A	
WEB-BASED B	WEB B	0555B	
WEB-BASED AB	WEB AB	0555 AB	
WEB-BASED BR	WEB AB BR	0555 ABBR	Blended Resources – allows for personalized learning plans to be provided for students who need support, with blended engaged instruction, from a teacher to support the classroom
WEB-BASED OV	WEB AB OV	0555 ABOV	Web-based original virtual credit course – allows for the correct scheduling and rostering of students who have a complete class schedule during the school day but desire to take an additional course for original credit
WEB-BASED TE	WEB AB TE	0555 ABTE	Web-based testing enrichment – allows correct rostering of students into any TSI, SAT, ACT, and other National testing enrichment components offered in the web-based program

Contact the College and Career Readiness or Advanced, Accelerated & Innovative Learning office for more information or to answers to questions regarding these courses.

## WORLD LANGUAGE COURSE PLACEMENT AND ACCELERATION

Unlike the TEKS in the other subject areas, the TEKS for Languages other than English (LOTE) are not different at each level; rather they are based on proficiency levels of the same skills. Therefore, for example, successful completion of a Level III LOTE course automatically ensures mastery of the TEKS of Levels I and II.

### Initial Placement for Native Speakers

Students who have enrolled in the first level of a world language for 7<sup>th</sup> grade or 9<sup>th</sup> grade and whose Home Language Survey indicates predominant use of that language in the home, will be administered a placement test at the end of their 6<sup>th</sup> or 8<sup>th</sup> grade year to determine the appropriate placement of the LOTE in the following school year.



## Placement Tests

Based on the results of the placement exam, counselors will place the student in the most appropriate level of the language course. If the student successfully completes the course, he/she will receive credit for the course completed and any lower level course. A notation of "P" will be placed on the transcript signifying credit for the preceding courses.

*Note: Entrance levels are indicated in **bold-faced type** and are determined by placement examinations. After initial placement, students are encouraged to continue their studies through the advanced levels of World Language course sequence.*

		Take Level V Course	Take Level V Course	Take Level V Course
↑	Take Level IV Course	Take Level IV Course	Take Level IV Course	<b>Placement/Successful Level IV Course Completion</b> Grade and Credit Awarded
↑	Take Level III Course	Take Level III Course	<b>Placement/Successful Level III Course Completion</b> Grade and Credit Awarded	
↑	Take Level II Course	<b>Placement/Successful Level II Course Completion</b> Grade and Credit Awarded	Grade and Credit Awarded	"P" Credit Awarded for Level III
↑	<b>Placement/Successful Level I Course Completion</b>		"P" Credit Awarded for Level II	"P" Credit Awarded for Level II
↑	Grade and Credit Awarded	"P" Credit Awarded for Level I	"P" Credit Awarded for Level I	"P" Credit Awarded for Level I

## Credit by Examination for Acceleration in World Languages

A CBE can be taken to accelerate heritage speakers who evidence language skills beyond the course in which they are initially enrolled. The student must register to take the CBE in the appropriate Language/Level. If the student passes the CBE, credit is awarded on the transcript. The actual grade earned on the CBE is recorded on the transcript. Credit is also awarded for any preceding courses, if applicable. Credit for those courses will be denoted with a "P".

### Possible Scenarios for Credit/Acceleration at Different Language Levels Tested

<b>Passed CBE Level I</b> Grade and Credit Awarded	<b>Passed CBE Level II</b> Grade and Credit	<b>Passed CBE Level III</b> Grade and Credit
	"P" Credit Awarded for Level I	"P" Credit Awarded For Level II
		"P" Credit Awarded For Level I

## Credit by Examination for Retrieval

A student who has failed a language course can take a CBE to regain credit. The student must pass each semester of a course for which credit is being retrieved. The procedures for CBEs for course retrieval are the same for World Languages courses as all other courses. See the CBE section for further information.

## World Language Q & A

1. If a student has successfully completed a full credit in Honors Spanish 5 or AP Spanish 5, but the student has not completed lower levels of Spanish, can automatic credit be awarded for Spanish 1, 2, and 3?

A student must take a proficiency exam. If the student passes for Spanish 3, then the student can receive credit for Spanish 1 and 2.

2. If a student completes a full credit of AP Spanish 5 or Honors Spanish 6 without taking AP Spanish 4, can we award credit for AP Spanish 4?

No, the student will not receive automatic credit for Spanish 4.

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# ***FORMS***

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# Fort Worth ISD

## Class Rank Procedures Beginning With the Graduating Class of 2024

### OVERVIEW

Class rank is a snapshot of a fluid process of adding to and updating the high school transcript. Semester averages may change as teachers' gradebooks are updated, dual credits are added, and outside credits are completed. Even though transcripts are updated throughout the semester, once class rank is set for the semester, it remains unchanged until the next ranking period.

Beginning with the graduating class of 2024, class rank will be determined by descending order of a student's semester *weighted Grade Point Average (GPA) points* earned in eligible courses that satisfy a student's graduation plan in the following curriculum categories:

- English Language Arts
- Mathematics
- Science
- Social Studies

Please see the last page for a complete list of courses

### WEIGHTED GPA POINTS

Each semester grade a student earns in an eligible course generates GPA Points. The GPA Points earned are based on:

- Tier of the course
- Grade in the course

The District categorizes and weights eligible courses as Tier I, Tier II, and Tier III.

#### TIER I COURSES

- Advanced Placement (AP) Courses
- International Baccalaureate (IB) Courses
- Dual Credit courses
- OnRamps Courses
- Any course that requires a Tier I course as a prerequisite

#### TIER II COURSES

- Honors courses (formerly Pre-AP Courses)

#### TIER III COURSES

- Any course not designated as a Tier I or Tier II course.

## GRADING SCALE

Grade	Tier I GPA Points	Tier II GPA Points	Tier III GPA Points
97 and above	5.0	4.5	4.0
94–96	4.8	4.3	3.8
90–93	4.6	4.1	3.6
87–89	4.4	3.9	3.4
84–86	4.2	3.7	3.2
80–83	4.0	3.5	3.0
77–79	3.8	3.3	2.8
74–76	3.6	3.1	2.6
71–73	3.4	2.9	2.4
70	3.0	2.5	2.0
Below 70	0	0	0

For example, a student who earns a semester grade of 94 in a course will earn the following GPA Points:

- Tier I Course – 4.8 GPA Points earned
- Tier II Course – 4.3 GPA Points earned
- Tier III Course – 3.8 GPA Points earned

## GRADE POINT AVERAGES

The District calculates three sets of Grade Point Averages (GPAs)

### WEIGHTED GPA (Weighted 4.0 Scale)

- Includes all high school courses taken for high school credit.
- Honors level courses\* receive higher grade point values.
- Reported on the student's high school transcript.
- Called *Cumulative Weighted GPA* in Focus

### UNWEIGHTED GPA (4.0 Scale)

- Includes all high school courses taken for high school credit.
- Honors level courses\* DO NOT receive higher grade point values.
- Reported on the student's high school transcript.
- Called *Cumulative GPA* in Focus

## WEIGHTED RANK GPA (Weighted 4.0 Scale)

- Used to calculate Class Rank and Quartile
- Used to calculate Valedictorian, Salutatorian, and Highest-Ranking Graduate
- Used to calculate Latin Honors
- Includes high school courses taken in the 4 core areas that meet graduation requirements
- Honors level courses\* receive higher grade point values.
- Reported on the student's high school transcript.
- Called *Rank GPA* in Focus

\* Includes AP, IB, OnRamps, Dual Credit, Honors courses, previous Pre-AP courses etc.

## CALCULATION OF CLASS RANK

FWISD calculates class rank for students beginning in the fall of their 10<sup>th</sup> grade year. Thereafter, students are ranked after the end of each semester, including the summer semester. Current semester data is not used to calculate rank.

The eight semester grades with the highest weighted GPA points in ELAR, Math, Science, and Social Studies will be used.

- After 9<sup>th</sup> grade – the two semester grades with the highest weighted GPA points in each category will be used. (released the fall of 10<sup>th</sup> grade)
- After the 1<sup>st</sup> semester of 10<sup>th</sup> grade – the three semester grades with the highest weighted GPA points in each category will be used. (released the spring of 10<sup>th</sup> grade)
- After 10<sup>th</sup> grade – the four semester grades with the highest weighted GPA points in each category will be used.
- After the 1<sup>st</sup> semester of 11<sup>th</sup> grade – the five semester grades with the highest weighted GPA points in each category will be used. (released the spring of 11<sup>th</sup> grade)
- After 11<sup>th</sup> grade – the six semester grades with the highest weighted GPA points in each category will be used
- After the 1<sup>st</sup> semester of 12<sup>th</sup> grade – the seven semester grades with the highest weighted GPA points in each category will be used. (released the spring of 12<sup>th</sup> grade)
- After 12<sup>th</sup> grade – the eight semester grades with the highest weighted GPA points in each category will be used.

If the student does not take 8 semesters in a core subject in high school, the GPA points from high school courses taken in middle school will be used.

The Calculation of Class Rank Excludes grades earned in or through:

- Local Credit Courses
- Credit by examination, with or without prior instruction
- Distance learning
- Dual credit courses taken through a college with which the District does not have a partnership agreement

## QUESTIONS AND ANSWERS

### 1. *What grades will be used to calculate my Class Rank?*

Semester grades earned in Math, Science, Social Studies, and English Language Arts will be used to calculate Class Rank GPA and Class Rank.

After 9<sup>th</sup> grade, we will take the two semester grades in each of those areas that generate the highest GPA points. After 10<sup>th</sup> grade, we will use the four semester grades in each of those areas that generate the highest GPA points; after 11<sup>th</sup> grade, we will use the highest six and after 12<sup>th</sup> grade, we will use the highest eight.

### 2. *What are GPA Points?*

GPA Points are the numerical value given to each semester course grade. The value is determined based on the grade earned in that course and the Tier of the course.

### 3. *Will grades earned in high school courses taken in middle school count in the calculation of Rank GPA?*

Grades earned in high school courses taken in middle school will only be used in the calculation of Rank GPA if the student does not take 8 semesters of a core content in high school.

For example, a student took the following courses:

Grade-Level	Courses Taken	Class Rank GPA Based On:
8	Algebra IA Algebra IB	N/A
9	Honors Geometry IA Honors Geometry IB	Honors Geometry IA Honors Geometry IB
10	Honors Algebra IIA Honors Algebra IIB	Honors Geometry IA Honors Geometry IB Honors Algebra IIA Honors Algebra IIB
11	Honors Precalculus IA Honors Precalculus IB	Honors Geometry IA Honors Geometry IB Honors Precalculus IA Honors Precalculus IB Honors Algebra IIA Honors Algebra IIB
12	None	Honors Geometry IA Honors Geometry IB Honors Algebra IIA Honors Algebra IIB Honors Precalculus IA Honors Precalculus IB Algebra IA Algebra IB

**4. What happens if a student fails a course – is that grade included in Rank GPA?**

The 8 semesters generating the highest grade-points will be used to calculate Class Rank GPA. If that failing grade is one of the 8 highest grades, the grade will be used. See the scenarios below:

**Scenario I**

<b>Grade-Level</b>	<b>Course and Grade Earned</b>	<b>Class Rank GPA Based On:</b>
9	Algebra IA – 68 <sup>^</sup> Algebra IB – 75	<b>Algebra IA - 68</b> Algebra IB – 75
10	Geometry IA – 70 Geometry IB – 80	<b>Algebra IA – 68</b> Algebra IB – 75 Geometry IA – 70 Geometry IB – 80
11	Algebra IIA – 62 <sup>^^</sup> Algebra IIB – 72	<b>Algebra IA - 68</b> Algebra IB – 75 Geometry IA – 70 Geometry IB - 80 <b>Algebra IIA<sup>^^</sup> - 62</b> Algebra IIB – 72
12	Algebra IIA <sup>^^</sup> - 70 ( <b>retaken in person</b> ) Precalculus IA - 80 Precalculus IB - 85	<b>Algebra IA - 68</b> Algebra IB - 75 Geometry IA - 70 Geometry IB - 80 <b>Algebra IIA<sup>^^</sup> - 70</b> Algebra IIB - 72 Precalculus IA - 80 Precalculus IB - 85

<sup>^</sup> The student does not need to retake the Algebra IA semester because when averaging the 68 with the 75 in Algebra IB, the student receives credit for both semesters

<sup>^^</sup> This student will have to retake Algebra IIA; his grade is not high enough that when averaged with Algebra IIB the student will receive credit. In this example, the student retakes the course in-person and thus will replace his failing 62 used in 11<sup>th</sup> grade with the passing 70 used in 12<sup>th</sup> grade.



**Scenario 2**

<b>Grade-Level</b>	<b>Course and Grade Earned</b>	<b>Class Rank GPA Based On:</b>
9	Algebra IA – 68 <sup>^</sup> Algebra IB – 75	<b>Algebra IA - 68</b> Algebra IB – 75
10	Geometry IA – 70 Geometry IB – 80	<b>Algebra IA – 68</b> Algebra IB – 75 Geometry IA – 70 Geometry IB – 80
11	Algebra IIA – 62 <sup>^^</sup> Algebra IIB – 72	<b>Algebra IA - 68</b> Algebra IB – 75 Geometry IA – 70 Geometry IB - 80 <b>Algebra IIA<sup>^^</sup> - 62</b> Algebra IIB – 72
12	<b>Algebra IIA<sup>^^</sup> - 70 (retaken in a Web-based Course)</b> Precalculus IA - 80 Precalculus IB - 85	<b>Algebra IA - 68</b> Algebra IB - 75 Geometry IA - 70 Geometry IB - 80 <b>Algebra IIA<sup>^^</sup> - 62</b> Algebra IIB - 72 Precalculus IA - 80 Precalculus IB - 85

<sup>^</sup> The student does not need to retake the Algebra IA semester because when averaging the 68 with the 75 in Algebra IB, the student receives credit for both semesters

<sup>^^</sup> This student will have to retake Algebra IIA; his grade is not high enough that when averaged with Algebra IIB the student will receive credit. In this example, the student retakes the course using Edgenuity. Grades earned in Edgenuity are not used in the calculation of Rank GPA and thus his original failing 62 will be used in the calculation of Rank GPA.

**5. What if a student has more than the eight required semester grades or takes more than one course in the same content area during the school year?**

The 2 semester grades in each content area generating the highest grades points will be used after grade 9; the 4 semester grades in each content area generating the highest grade points will be used after grade 10; the 6 semester grades in each content area generating the highest grade points will be used after grade 11, and the 8 highest grades in each content area generating the highest grade points will be used after grade 12.

If a student has more grades than the required number of grades in any grade-level, the ones generating the highest grade points will be used.

In the example below, the student took two math courses in 11<sup>th</sup> grade. At the end of 11<sup>th</sup> grade, the student has 8 semester grades. Class Rank will be calculated using the 6 of those 8 grades that generate the highest GPA points. After 12<sup>th</sup> grade, the student has 10 semester grades in Math. The 8 grades that generate the highest GPA points will be used.

<b>Grade</b>	<b>1<sup>st</sup> Semester Grade and GPA Points Earned</b>	<b>2<sup>nd</sup> Semester Grade and GPA Points Earned</b>	<b>Courses/Grades Used for Class Rank</b>
9th	Algebra IA – 85 (3.2)	Algebra IB – 95 (3.8)	Algebra IA – 85 Algebra IB - 95
10 <sup>th</sup>	Geometry IA – 80 (3.0)	Geometry IB – 90 (3.6)	Algebra IA – 85 Algebra IB – 95 Geometry IA – 80 Geometry IB – 90
11 <sup>th</sup>	Honors Precalculus IA – 75 (3.1) Statistics IA – 84 (3.2)	Honors Precalculus IB – 92 (4.1) Statistics IB – 97 (4.0)	Algebra IA – 85 Algebra IB – 95 Geometry IB - 90 Honors Precalculus IB – 92 Statistics IA - 84 Statistics IB – 97
12 <sup>th</sup>	AP Calculus IA – 86 (4.4)	AP Calculus IB – 93 (4.6)	Algebra IA – 85 Algebra IB – 95 Geometry IB - 90 Honors Precalculus IB – 92 Statistics IA - 84 Statistics IB – 97 AP Calculus IA – 86 AP Calculus IB - 93

## MATH COURSES

PEIMS Number	LONG COURSE TITLE	GRAD SUBJECT AREA
03100500	Algebra I (Honors, Basic, Applied Math)	Math
03100507	Algebra I (Applied Math)	Math
03100600	Algebra II (OnRamps, Honors, Basic)	Math
03100700	Geometry (Honors, Basic, Applied Math)	Math
03101100	Precalculus (Honors, OnRamps, Dual Credit)	Math
03102400	Mathematical Models with Applications	Math
03102500	Independent Study in Mathematics (First Time Taken)	Math
	Logic Design Using Boolean Algebra	Math
	Electrical Circuit Theory	Math
	Modeling Using Computer Simulation	Math
	Multivariable Calculus and Its Applications	Math
	Honors Number Theory	Math
	Calculus Based Statistics	Math
	Dual Credit Calculus Based Statistics	Math
	Honors Linear Algebra	Math
	Astrophysics	Math
	History of Mathematics	Math
	Optics	Math
	Survey of Mathematics	Math
	Dual Credit Linear Algebra	Math
03102501	Independent Study in Mathematics (Second Time Taken)	Math
	Ordinary Differential Equations and their Applications	Math
03102502	Independent Study in Mathematics (Third Time Taken)	Math
	Astrophysics	Math
	Honors Thermodynamics	Math
	OnRamps Honors Mathematical Modeling /Quantom Computing	Math
03102510	Advanced Quantitative Reasoning (Honors, Dual Credit)	Math
03102520	Discrete Mathematics for Problem Solving	Math
03102530	Statistics	Math
03102540	Algebraic Reasoning	Math
A3100101	AP Calculus AB (Dual Credit)	Math
A3100102	AP Calculus BC (Dual Credit)	Math
A3100102	Dual Credit Multivariable Calculus and Its Applications	Math
A3100200	AP Statistics (OnRamps)	Math

## CTE AND TECHNOLOGY COURSES THAT SATISFY MATH REQUIREMENTS

13036700	Engineering Math (Honors)	Math
CP111200	CP Math	Math
13037600	Digital Electronics (Honors, Dual Credit)	Math
13016700	Accounting 2 (Honors)	Math
13037050	Robotics 2 (Honors, Dual Credit)	Math
03580370	Discrete Mathematics for Computer Science (Honors)	Math
12701410	Applied Math for Tech Professionals (Dual Credit)	Math
A3580110	AP Computer Science	Math

### SCIENCE COURSES

03010200	Biology (Applied Science, Basic, Honors)	Science
03010207	Biology (Applied Science)	Science
03030000	Aquatic Science (Dual Credit)	Science
03040000	Chemistry (Applied Science, Honors, Dual Credit, On Ramps)	Science
03050000	Physics (Applied Science, Honors, OnRamps, Dual Credit)	Science
03060100	Astronomy (Honors, Dual Credit)	Science
03060200	Earth and Space Science (OnRamps, Dual Credit)	Science
03060201	Integrated Physics and Chemistry (Basic, Honors, Dual Credit)	Science
A3010200	AP Biology (OnRamps)	Science
A3040000	AP Chemistry (OnRamps)	Science
A3050001	AP Physics B	Science
A3050005	AP Physics C: Electricity and Magnetism	Science
A3050006	AP Physics C: Mechanics	Science
A3050003	AP Physics 1: Algebra Based	Science
A3050004	AP Physics 2: Algebra Based (OnRamps)	Science
A3020000	AP Environmental Science	Science

### CTE AND TECHNOLOGY COURSES THAT SATISFY SCIENCE REQUIREMENTS

13037500	Engineering Science (Honors)	Science
03020000	Environmental Systems (Dual Credit)	Science
13020700	Medical Microbiology (Honors, Dual Credit)	Science
13020800	Pathophysiology (Honors, Dual Credit)	Science
13037200	Scientific Research and Design (Honors, Dual Credit)	Science
	Intel Science Talent Search	Science
	Dual Credit Biology for Non-Science Majors + Lab	Science
	Project Based in Botany and Sustainable Horticulture	Science
	Dual Credit General College Physics I + Lab	Science
	Dual Credit General Chemistry I + Lab	Science
	Introduction to Cell Biology	Science
	Interaction of Radiation with Matter	Science
13037210	Scientific Research and Design II (Honors, Dual Credit)	Science
	Dual Credit Biology II for Non-Science Majors + Lab	Science
	General College Physics II + Lab	Science
	General Chemistry II + Lab	Science
13037220	Scientific Research and Design III (Honors)	Science
	Talent Search	Science
	Electrical Circuit Theory	Science
	Introduction to Optics and Lasers	Science
13000700	Advanced Animal Science (Honors)	Science
13002100	Advanced Plant and Soil Science (Honors, Dual Credit)	Science
13020600	Anatomy and Physiology (Honors, Dual Credit)	Science
13023000	Food Science (Honors)	Science
13029500	Forensic Science (Honors)	Science
13037100	Principles of Technology (Honors)	Science
13037300	Engineering Design and Problem Solving (Honors)	Science
13036400	Biotechnology I (Honors)	Science

### SOCIAL STUDIES COURSES

03320100	World Geography Studies (Basic, Community Citizenship, Honors, Dual Credit)	Social Studies
03330100	United States Government (Dual Credit)	Social Studies
03340100	United States History Studies Since 1877 (Basic, Honors, Dual Credit)	Social Studies
03340107	United States History Studies Since 1877 (Community Citizenship)	Social Studies
03340400	World History Studies (Basic, Community Citizenship, Honors, Dual Credit)	Social Studies
03380022	Special Topics in Social Studies: Honors Latino Studies	Social Studies
03380022	Special Topics in Social Studies Latino Studies	Social Studies
03380022	Dual Credit Special Topics in Social Studies: Latino Studies	Social Studies
03380022	Dual Credit Special Topics in Social Studies: Texas Government	Social Studies
03380084	Ethnic Studies: Mexican American Studies (Honors)	Social Studies
03380085	Ethnic Studies: African American Studies (Honors)	Social Studies
03310300	Economics with Emphasis on the Free Enterprise System and Its Benefits (Dual Credit)	Economics
A3360100	AP Human Geography	Social Studies
A3370100	AP Modern World History	Social Studies
A3340100	AP US History (OnRamps)	Social Studies
A3330100	AP Government	Social Studies
A3310200	AP Macroeconomics	Economics
A3310100	AP Microeconomics	Economics

### ENGLISH LANGUAGE ARTS COURSES

03220100	English I (Basic, Honors)	English Language Arts
03220107	English I (Communications IV)	English Language Arts
03220200	English II (Basic, Honors)	English Language Arts
03220207	English II (Communications V)	English Language Arts
03220300	English III (Basic, Communications VI, Honors, Dual Credit, OnRamps)	English Language Arts
03220400	English IV (Basic, Communications VII, Dual Credit, OnRamps)	English Language Arts
03220600	English for Speakers of Other Languages I	English Language Arts
03200607	English for Speakers of Other Languages I	English Language Arts
03200700	English for Speakers of Other Languages II	English Language Arts
03200707	English for Speakers of Other Languages II	English Language Arts
A3220100	AP Language and Composition	English Language Arts
A3220200	AP Literature and Composition	English Language Arts
CP110100	College Prep English	English Language Arts
03221600	Humanities (Honors, Dual Credit)	English Language Arts
03221800	Dual Credit Independent Study in English: American Literature	English Language Arts
03221800	Dual Credit Independent Study in English: British Literature I	English Language Arts
03221800	Dual Credit Independent Study in English: British Literature II	English Language Arts
03221810	Dual Credit Independent Study in English II: Research & Technical Writing	English Language Arts



## Fort Worth ISD

### Athletics State Elective – Local Credit Option Form

Date \_\_\_\_\_

Student \_\_\_\_\_

ID \_\_\_\_\_

School \_\_\_\_\_

Beginning in the 2010-2011 school year, the State of Texas allowed up to four credits for Physical Education/Athletics to count as state graduation credits. The implementation of this change from a maximum of two state graduation credits to four state graduation credits occurred among all grade levels. Therefore, it changed how athletics could be counted as local credits to state credits.

Currently, all state credits are counted in the calculation of the Grade Point Average (GPA) and class rank. Local credits do not count toward graduation credit requirements and are not included in the calculation of the GPA. A student and parent may request for a change in how the remaining Physical Education/Athletic credit(s) are used for state graduation credits after the state Physical Education/Athletic requirement of one credit has been met.

The following documents have been reviewed with the student and parent:

\_\_\_\_ Review of Credits/Transcript

\_\_\_\_ Impact on GPA/Class Rank

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

As a result of this conference: *(please initial the statements below to demonstrate your agreement)*

I, \_\_\_\_\_, understand the state graduation credits that are required to receive my high school diploma.

\_\_\_\_ I am requesting for the remaining additional state athletic credit(s) earned in \_\_\_\_\_, \_\_\_\_\_ and/or \_\_\_\_\_ school years to be awarded as local credit(s).

\_\_\_\_ I understand local credits do not count toward my state graduation requirements.

\_\_\_\_ I understand local credit(s) for athletics will not be counted in the calculation of my GPA/class rank.

\_\_\_\_ I understand I cannot change the status of previously awarded athletic credit(s) prior to this written request.

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

Parent Signature \_\_\_\_\_ / Phone Conference Approval

Date \_\_\_\_\_

Counselor Signature \_\_\_\_\_

Date \_\_\_\_\_

## Electivas estatales de atletismo – Formulario para la opción de créditos locales

Estudiante \_\_\_\_\_ ID \_\_\_\_\_ Fecha \_\_\_\_\_  
Escuela \_\_\_\_\_

Comenzando en el año escolar 2010-2011, el estado de Texas permitió que se tomarán en consideración un máximo de 4 créditos en Educación Física/Atletismo como créditos estatales para la graduación. La implementación de este cambio de un máximo de dos créditos estatales a cuatro créditos estatales para la graduación ocurrió en todos los grados. Por lo tanto, esto cambió la manera en la que el atletismo se iba a poder contar, de créditos locales a créditos estatales.

Actualmente, todos los créditos estatales se consideran en el cálculo del promedio académico (*Grade Point Average* o GPA por sus siglas en inglés) y del rango en la clase. Los créditos locales no cuentan para los créditos requeridos para la graduación y no están incluidos en el cálculo del GPA. Los créditos restantes de Educación Física/Atletismo se están usando como créditos estatales de graduación después de que el requisito estatal de un crédito de Educación Física/Atletismo se haya cumplido. En ciertas ocasiones, puede que un estudiante y sus padres soliciten que se haga un cambio en la clasificación de estos créditos para que se cuenten como créditos locales.

Los siguientes documentos se revisaron con el estudiante y su(s) padre(s):

- \_\_\_\_\_ Revisión de Créditos/Expediente Académico
- \_\_\_\_\_ Impacto en el promedio (GPA)/Rango de la clase

Comentarios: \_\_\_\_\_  
\_\_\_\_\_

Como resultado de esta conferencia: (*Favor de poner las iniciales para mostrar que está de acuerdo*)

Yo, \_\_\_\_\_, entiendo los créditos estatales que se requieren para recibir mi diploma de la escuela secundaria.

\_\_\_\_\_ Yo estoy solicitando que el restante de los créditos de atletismo estatales obtenidos en los años escolares \_\_\_\_\_ y/o \_\_\_\_\_ sean otorgados y clasificados como créditos locales.

\_\_\_\_\_ Yo entiendo que los créditos locales no cuentan para los requisitos estatales de graduación.

\_\_\_\_\_ Yo entiendo que los créditos locales por atletismo no van a contar para el cálculo de mi GPA/rango en la clase.

\_\_\_\_\_ Yo entiendo que no puedo cambiar el estatus de mis créditos atléticos obtenidos anteriormente a esta petición por escrito.

Firma del estudiante \_\_\_\_\_ Fecha \_\_\_\_\_

Firma del padre \_\_\_\_\_ / Conferencia telefónica aprobada Fecha \_\_\_\_\_

Firma del consejero \_\_\_\_\_ Fecha \_\_\_\_\_

# FWISD Credit-by-Examination Student Form

Name of Student: \_\_\_\_\_

Student ID Number: \_\_\_\_\_

School Name: \_\_\_\_\_

Student Address: \_\_\_\_\_

Current Grade and Date of Birth: \_\_\_\_\_

(CBEs can only be taken twice for any one course) # of attempt: 1<sup>st</sup> \_\_\_\_ or 2<sup>nd</sup> \_\_\_\_

Please **initial** the appropriate blank and enter the exam name for one of the three options listed below:

❖ \_\_\_\_ I am taking the Credit by Exam for \_\_\_\_\_ for the purpose of acceleration. I have had **NO prior formal instruction**. I understand I must receive a score of 80% or better on any and all CBEs taken for the purpose of acceleration when there has been no prior formal instruction in order for credit to be awarded for the course. *FWISD Policy EHDC (LOCAL)*

❖ \_\_\_\_ I am taking the Credit by Exam for \_\_\_\_\_ for the purpose of acceleration. I have had prior instruction. I understand I must receive a score of 70% or better on any and all CBEs taken for the purpose of acceleration when there has been **prior instruction** for credit to be awarded for the course. *FWISD Policy EHDB (LOCAL)*

**Check all the boxes that describe your prior instruction:**

\_\_\_\_ Home schooling\*\*                      \_\_\_\_ Educational Experience with Foreign

\_\_\_\_ Correspondence course\*\*              \_\_\_\_ Language

\_\_\_\_ Independent study supervised by a teacher or parent\*\*

\_\_\_\_ Other, please describe \_\_\_\_\_

**\*\* (Documentation must be attached, which includes the name of course and provider, course syllabus, dates of instruction; and/or completed course grade report.)**

❖ \_\_\_\_ I am taking the Credit by Exam for \_\_\_\_\_ for the purpose of retrieving a course previously attempted. I understand I must score 70% or better on any and all CBEs taken for the purpose of retrieval when there has been prior instruction for credit to be awarded for the course. *FWISD Policy EHDB (LOCAL)*

Sign: \_\_\_\_\_  
Student Signature and/or Parent Signature

Date: \_\_\_\_\_ Date of Exam \_\_\_\_\_

Counselor Verifying Documentation: \_\_\_\_\_

**Complete a separate form for each test and retain the signed form in the student's file.**

If credit should be awarded, an update for course credit must be reflected on the student's Academic Achievement Record.

Exam Score: \_\_\_\_\_

Date CBE Academic Record updated: \_\_\_\_\_

Counselor: \_\_\_\_\_



# Fort Worth ISD Early Graduation Request Form



### Student/Parent Request:

Student \_\_\_\_\_ Student ID: \_\_\_\_\_ School: \_\_\_\_\_

#### Early Graduation Date:

\_\_\_\_\_ January of \_\_\_\_\_ (May request to participate in June graduation ceremony.)  
(school year)

\_\_\_\_\_ June of \_\_\_\_\_ (Graduation a year ahead of schedule, June ceremony applies)  
(school year)

Student must register for a full schedule. If Early Graduation is approved, and the student will finish requirements by January, please list the classes the student would like to drop from his/her schedule. *This section does not apply to students graduating a year ahead of schedule.*

\_\_\_\_\_  
\_\_\_\_\_

#### The parent and student signatures below verify the understanding of the following statements:

- To qualify as a three-year graduate, the student must graduate on the FHSP with an endorsement.
- It is the student/parent's responsibility to contact any college/university's admissions office to determine that this request will not affect the student's admission.
- I have communicated with my child's school counselor, have carefully reviewed my child's record and believe this action to be in his or her best interest. I am fully aware that my child will no longer be enrolled in school and of the conditions which apply to all students who graduate early.
- I understand that the student's GPA and class rank will be recalculated based on the GPA scale in place for the cohort with which the student is graduating.
- Upon the completion of graduation requirements and withdrawal:
  - My child will have no right to participate in any extracurricular activities, including athletics, school dances, plays, etc.
  - My child will have no right to access any of the benefits accorded students who are enrolled, including bus transportation, participation in free/reduced price meal program, and special education and related services.
  - My child will have no right to be on campus except as a visitor and under conditions which apply to all visitors.

\_\_\_\_\_  
Signature of Parent                      Date                      Signature of Student                      Date

#### Counselor Review

My signature verifies that I have reviewed this student's record, have met with the student and communicated with his or her parents, and have reviewed the conditions associated with early graduation.

\_\_\_\_\_  
Signature of Counselor                      Date

#### Principal Action

\_\_\_\_\_ Approved                      \_\_\_\_\_ Denied

\_\_\_\_\_  
Principal Signature                      Date

**Fort Worth ISD**  
**Formulario de Solicitud para Graduación Adelantada**



**Solicitud de Estudiantes/Padres:**

Estudiante \_\_\_\_\_ ID del estudiante: \_\_\_\_\_ Escuela: \_\_\_\_\_

Fecha de graduación adelantada:

\_\_\_\_\_ de enero de \_\_\_\_\_ (Puede solicitar participar en la ceremonia de graduación de junio)  
(año escolar)

\_\_\_\_\_ de junio de \_\_\_\_\_ (La graduación es un año antes de lo previsto, aplica a la ceremonia de junio)  
(año escolar)

El estudiante deberá estar inscrito a tiempo completo. De aprobarse la Graduación Adelantada, y el estudiante va a terminar sus requisitos para enero, favor de enumerar las clases de las que desea darse de baja en su horario escolar. *Esta sección no aplica a los estudiantes que se gradúan con un año de anticipación.*

\_\_\_\_\_  
\_\_\_\_\_

**El padre y el estudiante firmarán a continuación, para verificar que entendieron la siguiente información:**

- Para ser elegible para graduarse en tres años, el estudiante debe graduarse en el *FHSP* con un endoso.
- Es la responsabilidad del estudiante/padre ponerse en contacto con la oficina de admisiones de la universidad/colegio universitario para determinar si esta solicitud no va a afectar la admisión del estudiante.
- Me he comunicado con el consejero escolar de mi hijo/a, he examinado cuidadosamente su expediente y entiendo que esta acción va a favor de sus mejores intereses. Estoy plenamente consciente de que mi hijo/a ya no estará matriculado/a en la escuela y de las condiciones que aplican a todos los estudiantes que se gradúan adelantadamente.
- Una vez cumplidos los requerimientos de graduación y retiro de la escuela:
  - Mi hijo/a no tendrá ningún derecho para participar en ninguna actividad extracurricular, incluyendo deportes, bailes escolares, obras teatrales escolares, etc.
  - Mi hijo/a no tendrá derecho a tener acceso a ninguno de los beneficios que se ofrecen a los estudiantes matriculados, incluyendo transportación escolar, participación en el programa de comidas gratis o a precio reducido, o a educación especial y servicios relacionados.
  - Mi hijo/a no tendrá derecho a estar en el plantel escolar, excepto como un visitante y bajo las condiciones que les aplican a todos los visitantes.

\_\_\_\_\_  
Firma del padre/madre                      Fecha                      Firma del estudiante                      Fecha

**Revisión del Consejero**

Mi firma verifica que he revisado el expediente de este estudiante, me he reunido con el estudiante y me he comunicado con sus padres, y hemos evaluado las condiciones asociadas a la graduación adelantada.

\_\_\_\_\_  
Firma del Consejero                      Fecha

**Acción del Director Escolar**

\_\_\_\_\_ Aprobada                      \_\_\_\_\_ Rechazada  
\_\_\_\_\_  
Firma del Director Escolar                      Fecha

## Fort Worth ISD GPA-Exempt Course Enrollment Form \_\_\_\_\_ School Year

Student \_\_\_\_\_ Grade Level (circle one) 11<sup>th</sup> or 12<sup>th</sup>

ID# \_\_\_\_\_ Student's Counselor \_\_\_\_\_

Semester Request is Being Submitted (circle one): **FALL** **SPRING** Date \_\_\_\_\_

Beginning in the 2019-2020 school year, juniors and seniors may take one full-year course **OR** two one-semester courses per year as GPA-exempt. Courses must be chosen from the approved list, and students must have completed all prerequisites for the chosen course(s). Counselor and parent approval is required.

**Students will receive a numerical grade all year in a GPA-exempt course, and the grade will be reported on all report cards and transcripts. Students will receive credit for the course, but the course will be excluded from GPA and class rank calculations.** Students must complete all assigned work and take all tests, including the final, unless exempt from final exams. Students must maintain a passing semester grade average in the GPA-exempt course in order to remain eligible for the GPA-exemption. **Please note: Colleges may re-calculate a student's GPA following their own system, so the college may include the GPA-exempt course in their GPA calculation, even if it was not included in FWISD calculations.**

**I am requesting enrollment in the following GPA-exempt course(s):**  
*(One full-year course OR two one-semester courses)*

1) COURSE \_\_\_\_\_ COURSE CODE \_\_\_\_\_

2) COURSE \_\_\_\_\_ COURSE CODE \_\_\_\_\_

**I have spoken to my counselor to determine eligibility, and I understand how a GPA-exempt course will affect my GPA and class rank, as well as my eligibility for UIL and other school-approved activities. I understand that once I sign up to take a course as GPA-exempt the decision cannot be changed. I also understand that if I drop a GPA-exempt course after the first semester, the remaining 0.5 exemption cannot be applied to another course the following semester. I understand that this form applies to the current semester only and is not retroactive to previous semesters.**

\_\_\_\_\_  
Signature of Student \_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Parent/Guardian \_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Counselor \_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Principal or Assistant Principal \_\_\_\_\_  
Date

**This form must be returned to your counselor by the tenth day of the first semester of each school year to be eligible for that semester. Students who miss the deadline for GPA-exempt enrollment for first semester may apply for exemption for the second semester if all criteria are met. (See back of this form for specifics.)**

# FORT WORTH ISD

## GPA-EXEMPT COURSES

Fort Worth ISD encourages students to pursue areas of special interests and talents in order to enrich their academic experience. To promote continued exploration of these areas of interest in depth, the district is offering certain courses to students in grades 11 and 12 on a GPA-exempt basis.

- **Who is eligible?**

- Juniors and seniors from the class of 2021 or later may enroll in a GPA-exempt course.
- Courses must be chosen from the approved list of eligible GPA-exempt courses.\*
- Students must have completed all of the prerequisites for the chosen course(s).
- Students must obtain counselor and parent approval.
- Students may choose one year-long course OR two one-semester courses per junior and senior year.

- **How are grades recorded?**

- Students will receive a numerical grade all year for the GPA-exempt course.
- Numerical grades will be reported on all report cards and transcripts during the year.
- Students will receive credit for the course, but the course will be excluded from GPA and class rank calculations.
- The course name will designate it as a GPA-exempt course on the student transcript.

- **What are the performance standards?**

- Students must complete all assigned work and take all tests and final exams for the course, unless the student is exempt from final exams.
- Students must complete any extra- or co-curricular components of the course.
- Students must maintain a passing semester grade average in the GPA-exempt course in order to remain eligible for the GPA exemption.

- **How will grades affect activities?**

- Numerical grades earned in a GPA-exempt course will be used to determine eligibility for participation in all school-sponsored and UIL activities. These grades will be used in determining exam exemptions, eligibility for academic awards and honors, admission to organizations such as National Honor Society, etc.

- **How do students enroll?**

- Complete the required GPA-Exempt Course Enrollment Form.
- Obtain Principal or Assistant Principal, counselor and parent approval / signatures on the form.
- Return the form to the counselor **no later than ten days after the start of each school year.**
- Once a course is approved as GPA-exempt, the decision cannot be changed.
- If a student drops a GPA-exempt course after the first semester, the remaining 0.5 exemption cannot be applied to another course the following semester. The 1.0 credit exemption is considered expended.
- Students who miss the deadline for GPA-exempt enrollment for first semester may apply for exemption for the second semester if all criteria are met.

**\*\*Please note: Colleges may re-calculate a student's GPA when applying, so the college may include the GPA-exempt course in their GPA calculation, even if it was not considered in FWISD calculations.**



## High School Statement of Expectations for Advanced Level Courses

Fort Worth ISD is committed to providing the best educational opportunities possible for all students. Advanced level Honors, Pre-IB, Advanced Placement, OnRamps, and International Baccalaureate courses prepare students for future academic and professional success.

### Please read and sign the following statement of expectations:

I understand that I am a student of great potential with the ability to be successful in Advanced level Honors, Pre-IB, Advanced Placement, OnRamps, and International Baccalaureate courses. With this understanding, I am willing to make the commitment of time and effort required by these classes. I understand the following about this trajectory:

- Advanced level courses prepare students for success in future college level advanced placement coursework, college courses, and future related jobs.
- These courses will follow a more rigorous level of curriculum (as outlined by the College Board, International Baccalaureate or state and district curriculum) and will require increased commitment of the student’s time and effort. Courses include Advanced level Honors, Pre-IB, Advanced Placement, OnRamps, and International Baccalaureate courses as defined in Bulletin 100.
- Students enrolled in these classes should expect frequency of homework, completion of independent projects, individual performances or presentations.
- Advanced level Honors, Pre-IB, Advanced Placement, OnRamps, and International Baccalaureate courses are college-level courses that require critical reading, writing, application of cross-curricular knowledge and constant analysis.
- Students enrolled in Advanced Placement or International Baccalaureate courses are expected to take the appropriate Advanced Placement or International Baccalaureate exam(s) and receive financial assistance from the College Board and FWISD. Exams are administered by the campus AP/IB Coordinator.
- Students enrolled in advanced level courses leading to licensure or certification are expected to complete required coursework which leads to attainment of this professional qualification.
- Students will participate in campus or district tutorials and review sessions as needed.

Withdrawal from an advanced level course must be approved by the teacher, parent, Postsecondary Success Specialist, counselor and administrator. A student may not be withdrawn without following protocol.

I, \_\_\_\_\_, (insert printed student name) am willing to make the commitment of time and effort required by advanced level coursework in Honors, Pre-IB, Advanced Placement, On Ramps, or International Baccalaureate classes.

**For School Year** \_\_\_\_\_

\_\_\_\_\_  
**Student’s Signature**

\_\_\_\_\_  
**Parent’s Signature**

\_\_\_\_\_  
**Counselor’s Signature**

\_\_\_\_\_  
**Postsecondary Success Specialist’s Signature**

### Schedule of Advanced Level Courses

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Declaración de expectativas de la escuela secundaria para los cursos de nivel avanzado

El Fort Worth ISD se compromete a brindar las mejores oportunidades educativas posibles para todos los estudiantes. Los cursos de nivel avanzado Honores, Pre-IB, Colocación Avanzada, OnRamps, y Bachillerato Internacional preparan a los estudiantes para el éxito académico y profesional futuro.

### Lea y firme la siguiente declaración de las expectativas:

Entiendo que soy un estudiante de gran potencial con la capacidad de tener éxito en cursos de Honores, Pre-IB, Colocación Avanzada, OnRamps, o Bachillerato Internacional. Con este entendimiento, estoy dispuesto a hacer el compromiso de tiempo y esfuerzo que requieren estas clases. Entiendo lo siguiente sobre esta trayectoria:

- Los cursos de nivel avanzado preparan a los estudiantes para el éxito en los trabajos académicos futuros de nivel universitario de colocación avanzada, cursos universitarios y trabajos futuros relacionados.
- Estos cursos seguirán un nivel de plan de estudios más riguroso (como lo describe la College Board, el Bachillerato Internacional o el plan de estudios estatal y del distrito) y requerirán un mayor compromiso del tiempo y esfuerzo del estudiante. Los cursos incluyen AP, Honores, IB, OnRamps como se define en el Boletín 100.
- Los estudiantes inscritos en estas clases deben esperar tareas frecuentemente, completar proyectos independientes, presentaciones o representaciones individuales.
- Las clases de Colocación Avanzada, y OnRamps son cursos de nivel universitario que requieren lectura crítica, escritura, aplicación de conocimientos interdisciplinarios y análisis constante.
- Se espera que los estudiantes inscritos en cursos de Colocación Avanzada o Bachillerato Internacional tomen el/los exámenes apropiados de Colocación Avanzada o Bachillerato Internacional y reciban ayuda financiera del College Board y FWISD. Los exámenes son administrados por el Coordinador AP/IB de la escuela.
- Se espera que los estudiantes inscritos en cursos de nivel avanzado que son conducidos a la obtención de una licenciatura o certificación, completen los trabajos académicos requeridos para la obtención de esta calificación profesional.
- Los estudiantes participarán en tutorías de la escuela o del Distrito y en sesiones de revisión según sea necesario.

La baja de un curso de nivel avanzado debe ser aprobado por el maestro, padre, Especialista en Éxito Postsecundario, consejero y administrador. Un estudiante no puede darse de baja sin seguir el protocolo.

Yo, \_\_\_\_\_, (insertar el nombre del estudiante en letra de imprenta/*insert printed student name*) estoy dispuesto/a a comprometerme con el tiempo y el esfuerzo que requieren los cursos de nivel avanzado en las clases de Honores, Pre-IB, Colocación Avanzada, OnRamps, o Bachillerato Internacional.

Para el año escolar \_\_\_\_\_

\_\_\_\_\_  
Firma del estudiante

\_\_\_\_\_  
Firma del padre/madre/guardián

\_\_\_\_\_  
Firma del consejero/a

\_\_\_\_\_  
Firma del Especialista de Éxito Postsecundario

### Horario de los Cursos de Nivel Avanzado

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FORT WORTH INDEPENDENT SCHOOL DISTRICT**  
**Notice of Meeting to Change High School Graduation Plan**



Fort Worth Independent School District expects all students to complete the Foundation High School Program (FHSP) with Endorsements. However, for students who are unable to meet the requirements for the Foundation High School Program (FHSP) with Endorsements, a meeting must be convened to consider the student's options, and the following form must be completed.

In the 2014-2015 school year with the adoption of House Bill 5, students in Grade 9 in the 2014-2015 school year and thereafter must enroll in courses necessary to complete the curriculum of the Foundation High School Program with Endorsements.

However, if the student, the student's parent or other persons standing in the parental relation to the student, a school counselor and principal agree, then the student should be permitted to take courses under the Foundation High School Program (FHSP) without Endorsements. Fully completing this form, including required signatures, meets the required documentation for a student to move from the Foundation High School Plan (FHSP) with Endorsements to the Foundation High School Program (FHSP) without Endorsements.

Date of Meeting: \_\_\_\_\_ School Name: \_\_\_\_\_

Student Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Grade: \_\_\_\_\_ Age: \_\_\_\_\_

Reason(s): \_\_\_\_\_

*I understand that by selecting the Foundation High School Program (FHSP) without Endorsements, I will no longer be eligible for "Top 10 Percent" automatic college admissions consideration. By law, students must graduate under at least the Distinguished Level of Achievement (FHSP) for this consideration. In addition, Fort Worth ISD Policy EIC (LOCAL) indicates that only students completing the Distinguished Level of Achievement (FHSP) qualify for valedictorian and salutatorian honors.*

\_\_\_\_\_  
Signature of student \_\_\_\_\_  
Date

**Parent / Guardian**

I have received written notice regarding the benefits to my child of graduating from high school with one or more endorsements and I grant permission for my child to graduate under the Foundation High School Program without earning an endorsement.

\_\_\_\_\_  
Signature of parent/guardian \_\_\_\_\_  
Date

**School Principal and Counselor**

I certify that \_\_\_\_\_ (student name) meets the criteria below to pursue the Foundation High School Program without an endorsement.

- The student has completed his or her sophomore year of high school.
- The student and his or her parent/guardian have been advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements.

Required Signatures: \_\_\_\_\_ Date: \_\_\_\_\_  
Principal

\_\_\_\_\_  
Counselor

A copy of this document is to be given to the student and parent/guardian. A copy will also be placed in the student's cumulative folder. Appropriate documentation is to be attached.

Student, Counselor, and Principal (not designee) signatures are required. \*Only one (1) Parent/Guardian signature is required.

**DISTRITO ESCOLAR INDEPENDIENTE DE FORT WORTH**  
**Aviso de Reunión para cambiar el plan de Graduación de Escuela Secundaria**



El Distrito Escolar Independiente de Fort Worth espera que todos los estudiantes completen el *Foundation High School Program (FHSP) con Especialidades*. Sin embargo, los estudiantes que no logren cumplir con los requisitos del *Foundation High School Program (FHSP) con Especialidades*, tendrán que asistir a una reunión para explorar las opciones que tienen estos estudiantes y tendrán que completar el siguiente formulario.

En el año escolar 2014-2015, al adoptarse el Proyecto de Ley 5 de la Cámara, los estudiantes en el Grado 9 en ese año escolar, y a partir de entonces, se tienen que matricular en los cursos necesarios para completar el currículo del *Foundation High School Plan (o FHSP) con Especialidades*.

Sin embargo, si el estudiante, los padres del estudiante, otras personas que se encuentren en lugar de padres con el estudiante, el consejero de la escuela o el director están de acuerdo, entonces al estudiante se le permitirá tomar los cursos del *Foundation High School Program (FHSP) sin Especialidades*. El completar este formulario, incluyendo las firmas requeridas, cumple con la documentación requerida para que un estudiante se pueda mover del *Foundation High School Plan (FHSP) con Especialidades* para el *Foundation High School Program (FHSP) sin Especialidades*.

Fecha de la reunión: \_\_\_\_\_ Nombre de la escuela: \_\_\_\_\_

Nombre del estudiante: \_\_\_\_\_ Identificación: \_\_\_\_\_ Grado: \_\_\_\_\_ Edad: \_\_\_\_\_

Razón(es): \_\_\_\_\_

*Entiendo que al seleccionar el "Foundation High School Program (FHSP) sin Especialidades," ya no seré elegible para ser considerado para la admisión universitaria automática llamada "Top 10 Percent." Por ley, los estudiantes tienen que graduarse por lo menos bajo el "Distinguished Level of Achievement (FHSP)" para esta consideración. También, la política EIC (LOCAL) del Distrito Escolar Independiente de Fort Worth indica que sólo los estudiantes que completen el "Distinguished Level of Achievement (FHSP)" cumplen con los requisitos para recibir los honores de primer y segundo promedio académico más alto ("valedictorian" y "salutatorian").*

\_\_\_\_\_  
Firma del estudiante \_\_\_\_\_  
Fecha

**Padre/Guardián**

He recibido notificación escrita sobre los beneficios que tendrá mi hijo(a) al graduarse de escuela secundaria con una o más especialidades y doy mi permiso para que mi hijo(a) se gradúe bajo el *Foundation High School Program* sin obtener una especialidad.

\_\_\_\_\_  
Firma del padre/guardián \_\_\_\_\_  
Fecha

**Director de la Escuela y Consejero**

Certifico que \_\_\_\_\_ (nombre del/ de la estudiante) cumple con los siguientes criterios para continuar en el *Foundation High School Program sin una especialidad*.

- El/la estudiante ha completado su segundo año de escuela secundaria.
- El/la estudiante y sus padres/guardianes han sido asesorados por el consejero de la escuela sobre los beneficios específicos de graduarse de escuela secundaria con una o más especialidades.

Firmas Requeridas:

Director \_\_\_\_\_ Fecha \_\_\_\_\_

Consejero \_\_\_\_\_ Fecha \_\_\_\_\_

Una copia de este documento se debe entregar al estudiante y a su padre/guardián. Una copia también se debe colocar en el expediente acumulativo del estudiante. La documentación apropiada debe estar adjunta a estos documentos.

Se requieren las firmas del estudiante, el Consejero y el Director (ningún designado). \*Se requiere sólo una (1) firma del padre/guardian.



# World Languages Department - Course Substitution Form



Student name: \_\_\_\_\_ Date: \_\_\_\_\_

Student ID \_\_\_\_\_ High School Campus: \_\_\_\_\_

All graduation plans in the State of Texas require that a student earns two credits in any two levels of the same language. Students may select to take any two levels in the **same language** or two credits in computer programming languages selected from Computer Science I, II, III, AP Computer Science Principles, and AP Computer Science A.

If a student, in completing the first credit of a World Language course demonstrates that he/she is unlikely to be able to complete the second credit, the student may substitute another appropriate course as follows:

- Special Topics in Language and Culture
- Another credit from a different language
- Computer programming languages

(Note: If a student takes AP Computer Science A as a LOTE substitution, only one of the two credits awarded for the course can be used for the LOTE substitution. The student must take a second computer programming course).

\*A student, who **due to a disability**, is unable to complete two credits in the same language, may substitute two credits that are not being used to satisfy another specific graduation requirement by:

Obtaining two credits from one of the following:

- CTE
- technology applications

Or combining two credits from the following:

- English language arts
- mathematics
- science
- social studies

The determination regarding a student's ability to complete the second credit of LOTE **requires the diagnostician's signature\*** and must be agreed to **by a campus committee consisting of the following:**

- teacher of the first LOTE credit course or another LOTE teacher designated by the school district
- principal or designee
- student's parent or person standing in parental relation
- ARD if the student receives special education services (TEC, Chapter 29, Subchapter A)
- committee established for the student under Section 504, Rehabilitation Act of 1973

**If a student is seeking to substitute the second year of a World Language, please complete the following:**

The documents have been reviewed by the student and parents:

\_\_\_\_ Credits/Transcript      \_\_\_\_ Previous LOTE course \_\_\_\_\_

**By signing below, I acknowledge that 4-year colleges and universities may not accept a student without 2 years of the same World Language.**

Student's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LOTE Teacher's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Counselor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

\*Diagnostician's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Principal's Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# Fort Worth ISD

## Marching Band Activity / PE Credit – Opt Out Form

Date \_\_\_\_\_

Student \_\_\_\_\_

ID \_\_\_\_\_

School \_\_\_\_\_

Beginning in the 2013-2014 school year, students participating in Level I or II of the Marching Band Activity are eligible to receive a grade in both Band and the Marching Band Activity. In addition, the participation in Marching Band Activity provided students PE Substitution credit that will count toward the state graduation requirements.

Due to the manner in which the PE Substitution Credit can be counted toward graduation requirements, a review of the academic achievement record may be needed to understand the impact of the changes. Please contact your counselor for a conference to discuss your graduation requirements.

*(Please initial the statements below to demonstrate your agreement)*

I, \_\_\_\_\_, understand the state graduation credits that are required to receive my high school diploma.

\_\_\_\_\_ I am requesting a change to the Marching Band Activity / PE Substitution credit earned in the \_\_\_\_\_ school year.

\_\_\_\_\_ I understand I will not receive PE credit for my participation in the Marching Band Activity during the school year listed above.

\_\_\_\_\_ I understand I must fulfill the PE graduation requirement with a different physical education credit to meet state graduation requirements.

\_\_\_\_\_ I understand that once this change is made, I **cannot** change the manner in which the Marching Band Activity has been assigned to the academic achievement record at a later time.

Student Signature \_\_\_\_\_

Date \_\_\_\_\_

Parent Signature \_\_\_\_\_ / Phone Conference Approval \_\_\_\_\_ Date \_\_\_\_\_

Counselor Signature \_\_\_\_\_

Date \_\_\_\_\_

**PROCEDURE ADDING/DROPPING ADVANCED  
LEVEL COURSES OR CHANGING TEACHERS**

In order to **ADD** Honors, AP/IB level class or Onramps courses, the following must have occurred:

1. Student and teacher conference
2. Parent Contact by teacher
3. This form signed appropriately

To **DROP** Honors, AP/IB level class, or Onramps courses, without penalty, the following must have occurred:

1. Parent and student contact by teacher with documentation
2. Develop a plan for improvement within a specific timeframe
3. Re-evaluation with documentation
4. Decision to drop Honors, AP/IB level class, or Onramps courses,
5. This form signed appropriately

This form must be signed by the student, parent/guardian, teacher, PSS and administrator. Return the completed form to the student's counselor.

**In order to change teachers**, the counselor must communicate with parent, student and teacher and contact must be documented. After the counselor has verified the need for change of teacher, the student or parent/guardian must get approval from the principal.

**All signatures are required on this form in order for schedule to be changed.**

Date: \_\_\_\_\_ STUDENT NAME: \_\_\_\_\_

STUDENT ID#: \_\_\_\_\_ STUDENT GRADE LEVEL: \_\_\_\_\_

CLASS(ES) TO BE ADDED/DROPPED or TEACHER CHANGED:

\_\_\_\_\_

\_\_\_\_\_

Date of Parent/Teacher Contact: \_\_\_\_\_

Date of Re-Evaluation: \_\_\_\_\_

Student Signature: \_\_\_\_\_ Parent Signature: \_\_\_\_\_

Teacher Signature: \_\_\_\_\_ PSS Signature: \_\_\_\_\_

Counselor Signature: \_\_\_\_\_ Effective Date: \_\_\_\_\_

Administrator Signature: \_\_\_\_\_

## Glossary

**Accelerated instruction** is an intensive supplemental program designed to address the needs of an individual student in acquiring the knowledge and skills required at his or her grade level and/or as a result of a student not meeting the passing standard on a state-mandated assessment.

**ACT-Aspire** refers to an assessment that took the place of ACT-Plan and is designed as a preparatory and readiness assessment for the ACT. This is usually taken by students in grade 10.

**ACT** refers to one of the two most frequently used college or university admissions exams: the American College Test. The test may be a requirement for admission to certain colleges or universities.

**ARD** is the admission, review, and dismissal committee convened for each student who is identified as needing a full and individual evaluation for special education services. The eligible student and his or her parents are members of the committee.

**Attendance review committee** is responsible for reviewing a student's absences when the student's attendance drops below 90 percent, or in some cases 75 percent, of the days the class is offered. Under guidelines adopted by the board, the committee will determine whether there were extenuating circumstances for the absences and whether the student needs to complete certain conditions to master the course and regain credit or a final grade lost because of absences.

**EOC assessments** are end-of-course tests, which are state-mandated, and are part of the STAAR program. Successful performance on EOC assessments are required for graduation. These exams will be given in English I, English II, Algebra I, Biology, and U.S. History.

**IEP** is the written record of the individualized education program prepared by the ARD committee for a student with disabilities who is eligible for special education services. The IEP contains several parts, such as a statement of the student's present educational performance; a statement of measurable annual goals, with short-term objectives; the special education and related services and supplemental aids and services to be provided, and program modifications or support by school personnel; a statement regarding how the student's progress will be measured and how the parents will be kept informed; accommodations for state or districtwide tests; whether successful completion of state-mandated assessments is required for graduation, etc.

**IGC** is the individual graduation committee, formed in accordance with state law, to determine a student's eligibility to graduate when the student has failed to demonstrate satisfactory performance on no more than two of the required state assessments.

**ISS** refers to in-school suspension, a disciplinary technique for misconduct found in the Student Code of Conduct. Although different from out-of-school suspension and placement in a DAEP, ISS removes the student from the regular classroom.

**PGP** stands for Personal Graduation Plan, which is required for high school students beginning with ninth graders in the 2014–15 school year, and for any student in middle school who fails a section on a state-mandated test or is identified by the district as not likely to earn a high school diploma before the fifth school year after he or she begins grade 9.

**PSAT** is the preparatory and readiness assessment for the SAT.

**SAT** refers to one of the two most frequently used college or university admissions exams: the Scholastic Aptitude Test. The test may be a requirement for admissions to certain colleges or universities.

**Section 504** is the federal law that prohibits discrimination against a student with a disability, requiring schools to provide opportunities for equal services, programs, and participation in activities. Unless the

student is determined to be eligible for special education services under the Individuals with Disabilities Education Act (IDEA), general education with appropriate instructional accommodations will be provided.

**STAAR** is the State of Texas Assessments of Academic Readiness, the state's system of standardized academic achievement assessments, effective beginning with certain students for the 2011–2012 school year.

**STAAR A** is an accommodated version of the STAAR that is available for certain students who receive special education services or students who have been identified as dyslexic.

**STAAR Alternate 2** is an alternative state-mandated assessment designed for students with severe cognitive disabilities receiving special education services who meet the participation requirements, as determined by the student's ARD committee.

**STAAR Linguistically Accommodated (STAAR L)** is an alternative state-mandated assessment with linguistic accommodations designed for certain recent immigrant English language learners.

**State-mandated assessments** are required of students at certain grade levels and in specified subjects. Successful performance sometimes is a condition of promotion, and passing the STAAR EOC assessments is a condition of graduation. Students have multiple opportunities to take the tests if necessary for promotion or graduation.

**Student Code of Conduct** is developed with the advice of the district-level committee and adopted by the board and identifies the circumstances, consistent with law, when a student may be removed from a classroom, campus, or district vehicle. It also sets out the conditions that authorize or require the principal or another administrator to place the student in a DAEP. It outlines conditions for out-of-school suspension and for expulsion. The Student Code of Conduct also addresses notice to the parent regarding a student's violation of one of its provisions.

**TELPAS** stands for the Texas English Language Proficiency Assessment System, which assesses the progress that English language learners make in learning the English language, and is administered for those who meet the participation requirements in kindergarten–grade 12.

**TSI assessment** is the Texas Success Initiative assessment designed to measure the reading, mathematics, and writing skills that entering college-level freshmen students should have if they are to be successful in undergraduate programs in Texas public colleges and universities.

**TxVSN** is the Texas Virtual School Network, which provides online courses for Texas students to supplement the instructional programs of public school districts. Courses are taught by qualified instructors, and courses are equivalent in rigor and scope to a course taught in a <http://pol.tasb.org/Policy/Code/1101?filter=FNG> traditional classroom setting.

**UIL** refers to the University Interscholastic League, the statewide voluntary nonprofit organization that oversees educational extracurricular academic, athletic, and music contests.

# MIDDLE SCHOOL COURSES

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## Programs of Choice and Preparatory Courses

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\* For all questions regarding Programs and Schools of Choice, please visit the Gold Seal page at [fwisd.org/choices](http://fwisd.org/choices) .

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### AVID AB (Advancement Via Individual Determination)

**0261A/B (6<sup>th</sup>),  
0269A/B (7<sup>th</sup>) or  
0270A/B (8<sup>th</sup>)**

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Students progress from one grade level to the next and develop awareness of the values accompanying academic goals and success. Students receive instructions that utilize a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. Students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading to support their academic growth. Additionally, students are exposed to field trips, guest speakers, and research to increase their knowledge of college and career opportunities

82900XXX (6<sup>th</sup>),  
85000001 (7<sup>th</sup>), or  
85000002 (8<sup>th</sup>)

Instructional Material: Materials provided through contract with AVID Center

Prerequisites: Application to and Acceptance into the AVID Program

What's Next? Next grade level of AVID courses

Grade level: 6-8

Credit(s): Local Credit Only

## English Language Arts

### English Language Arts Recommended Course Sequence and Testing Guide

	Traditional		Honors		Advanced Placement (AP) / Dual Credit (DC)	
<b>6th</b>	Gr 6 ELAR: 0041	STAAR Gr 6	Honors Gr 6 ELAR: 0041	STAAR Gr 6	Gr 6 ELAR: 0041	STAAR Gr 6
<b>7th</b>	Gr 7 ELAR: 0042	STAAR Gr 7	Honors Gr 7 ELAR: 0019	STAAR Gr 7	Gr 7 ELAR: 0042	STAAR Gr 7
<b>8th</b>	Gr 8 ELAR: 0043	STAAR Gr 8	Honors Gr 8 ELAR: 0025	STAAR Gr 8	Gr 8 ELAR: 0043	STAAR Gr 8
<b>9th</b>	English I: 3011	Eng I EOC	Honors English I: 3090	Eng I EOC	English I: 3011	Eng I EOC
<b>10th</b>	English II: 3013	Eng II EOC	Honors English II: 3092	Eng II EOC	English II: 3013	Eng II EOC
<b>11th</b>	English III: 3015	PSAT SAT ACT	Honors English III: 3094 AP/DC ELAR Elective or Advanced ELAR	PSAT SAT ACT AP TSI	Honors English III: 3094 AP/DC ELAR Elective or Advanced ELAR	PSAT SAT ACT AP TSI
<b>12th</b>	English IV: 3017 College Preparatory English: 3131	PSAT SAT ACT TSI	English IV: 3017 OnRamps English (may only take once for Eng III or Eng IV – 1 credit) AP/DC ELAR Elective or Advanced ELAR	PSAT SAT ACT AP TSI	OnRamps English (may only take once for Eng III or Eng IV – 1 credit) AP/DC ELAR Elective or Advanced ELAR	PSAT SAT ACT AP TSI

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**Gr 6 ELAR**

**Sheltered Gr 6 ELAR**

**Sheltered Gr 6 ELAR - NP**

**0041 A/B**

**0084 A/B**

**0064 A/B**

Students will engage in activities that build on their prior knowledge and skills in order to strengthen and integrate their reading, writing, research, listening, speaking, oral, and written language skills.

02800000

Instructional Material: 0600 – *Savvas myPerspective, Grade 6 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)*

Grade level: 6  
Credit(s): NA

Prerequisites: None

What's Next? Gr 7 ELAR (or Honors)

Students will take STAAR Gr 6 Reading.

Teachers teaching emergent bilingual students must be English and ESL certified.

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**Gr 6 Enhanced ELAR**

**Sheltered Gr 6 Enhanced ELAR**

**(Humanities)**

**00041 A/B**

**00084 A/B**

This Enhanced course follows the 6th grade ELAR and 6th grade Social Studies TEKS while providing an enhanced curriculum. This course is an interdisciplinary study where students will explore the dynamic relationship between humans and the institutions common to world societies. Emphasis is placed using primary, secondary, and literary sources to examine the connectedness and diversity of the human experience through the exploration of the people, places, and ideas that highlight the geographic, religious, political, social, educational, economic, and scientific spheres of world societies.

02660060

Instructional Material: Contact content director for approved instructional materials.

Grade level: 6

Prerequisites: Content Director approval needed; concurrent enrollment in Gr 6 Enhanced Social Studies

Credit(s): NA

What's Next? Grade 7 Enhanced ELAR

Students will take STAAR Gr 6 Reading.

Teachers teaching emergent bilingual students must be English and ESL certified.



<b>Gr 6 ELAR Honors</b>	<b>0015 A/B</b>
<b>Sheltered Gr 6 ELAR Honors</b>	<b>0087 A/B</b>
As required by the state, this course goes beyond the TEKS in depth and complexity. It is vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills; and includes enrichment opportunities such as research, projects, and independent study.	02800000
<u>Instructional Material:</u> <i>0600 – Savvas myPerspective, Grade 6 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)</i>	Grade level: 6 Credit(s): NA
<u>Prerequisites:</u> FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course's availability to a student with such a request.	
<u>What's Next?</u> Gr 7 ELAR Honors Students will take STAAR Gr 6 Reading. Course taught by a locally certified gifted teacher, that has attended at least one AP or LTF Summer Institute for the course. Teachers teaching emergent bilingual students must be English and ESL certified.	
<b>Gr 7 ELAR</b>	<b>0042 A/B</b>
<b>Sheltered Gr 7 ELAR</b>	<b>0085 A/B</b>
<b>Sheltered Gr 7 ELAR - NP</b>	<b>0065 A/B</b>
Students will engage in activities that build on their prior knowledge and skills in order to strengthen and integrate their reading, writing, research, listening, speaking, and oral and written language skills.	03200540
<u>Instructional Material:</u> <i>Savvas myPerspective, Grade 7 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)</i>	Grade level: 7 Credit(s): NA
<u>Prerequisites:</u> Gr 6 ELAR <u>What's Next?</u> Gr 8 ELAR (or Honors) or Honors English I Students will take STAAR Gr 7 Reading. Teachers teaching emergent bilingual students must be English and ESL certified.	
<b>Gr 7 Enhanced ELAR</b>	<b>00042 A/B</b>
<b>Sheltered Gr 7 Enhanced ELAR (Humanities)</b>	<b>00085 A/B</b>
This Enhanced course follows the 7th grade ELAR and 7th grade Social Studies TEKS while providing an enhanced curriculum. This course is an interdisciplinary study where students will explore the dynamic relationship between humans and the institutions of Texas history from 1519 to present day. Emphasis is placed on using primary, secondary, and literary sources that examine the human experience with particular attention n to issues of race, class, and gender as they encounter the geographic, religious, political, social, educational, economic, and scientific forces of the time period.	03343000
<u>Instructional Material:</u> Contact content director for approved instructional materials.	Grade level: 7 Credit(s): NA
<u>Prerequisites:</u> Content Director approval needed; concurrent enrollment in Gr 7 Enhanced Social Studies <u>What's Next?</u> Grade 8 Enhanced ELAR Students will take STAAR Gr 7 Reading. Teachers teaching emergent bilingual students must be English and ESL certified.	
<b>Gr 7 ELAR Honors</b>	<b>0019 A/B</b>
<b>Sheltered Gr 7 ELAR Honors</b>	<b>00857 A/B</b>
As required by the state, this course goes beyond the TEKS in depth and complexity. It is vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills; and includes enrichment opportunities such as research, projects, and independent study.	03200540
<u>Instructional Material:</u> <i>Savvas myPerspective, Grade 7 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)</i> <i>Additional resources available through required attendance at least 1 AP or LTF summer institute.</i>	Grade level: 7 Credit(s): NA
<u>Prerequisites:</u> FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course's availability to a student with such a request.	
<u>What's Next?</u> Gr 8 ELAR Honors or Honors English I Students will take STAAR Gr 7 Reading. Course taught by locally certified gifted teacher, that has attended at least one AP or LTF Summer Institute for the course. Teachers teaching emergent bilingual students must be English and ESL certified.	
<b>Gr 8 ELAR</b>	<b>0043 A/B</b>
<b>Sheltered Gr 8 ELAR</b>	<b>0086 A/B</b>
<b>Sheltered Gr 8 ELAR - NP</b>	<b>0066 A/B</b>
Students will engage in activities that build on their prior knowledge and skills in order to strengthen and integrate their reading, writing, research, listening, speaking, and oral and written language skills.	03200550
<u>Instructional Material:</u> <i>0800 – Savvas myPerspective, Grade 8 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)</i>	Grade level: 8 Credit(s): NA
<u>Prerequisites:</u> Gr 7 ELAR Students will take STAAR Gr 8 Reading. Teachers teaching emergent bilingual students must be English and ESL certified.	

<b>Gr 8 Enhanced ELAR Sheltered Gr 8 Enhanced ELAR (Humanities)</b>	<b>00043 A/B 00086 A/B</b>
This Enhanced course follows the 8th grade ELAR and 8th grade Social Studies TEKS while providing an enhanced curriculum. This course is an interdisciplinary study where students will explore the dynamic relationship between humans and the institutions of U.S. history from 1607 to 1877. Emphasis is placed on using primary, secondary, and literary sources that examine the human experience with particular attention to issues of race, class, and gender as they encounter the geographic, religious, political, social, educational, economic, and scientific forces of the time period.	03200550
<u>Instructional Material:</u> Contact content director for approved instructional materials. <u>Prerequisites:</u> Content Director approval needed; concurrent enrollment in Gr 8 Enhanced Social Studies <u>What's Next?</u> English I or II; Honors English I or II Students will take STAAR Gr 8 Reading. Teachers teaching emergent bilingual students must be English and ESL certified.	Grade level: 8 Credit(s): NA
<b>Gr 8 ELAR Honors Sheltered Gr 8 ELAR Honors</b>	<b>0025 A/B 00868 A/B</b>
As required by the state, this course goes beyond the TEKS in depth and complexity. It is vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills; and includes enrichment opportunities such as research, projects, and independent study.	03200550
<u>Instructional Material:</u> <i>0800 – Savvas myPerspective, Grade 8 (Texas Edition), Grade 6 Classroom Library (200 diverse titles); ThinkCERCA Supplemental Resource</i> <i>Additional resources available through required attendance at least 1 AP or LTF summer institute.</i> <u>Prerequisites:</u> FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course's availability to a student with such a request. <u>What's Next?</u> English I Honors Students will take STAAR Gr 8 Reading. Course taught by locally certified gifted teacher that has attended at least one AP or LTF Summer Institute for the course. Teachers teaching emergent bilingual students must be English and ESL certified.	Grade level: 8 Credit(s): NA
<b>Honors English I Sheltered Honors English I</b>	<b>3090 A/B 3089 A/B</b>
As required by the state, this course goes beyond the TEKS in depth and complexity and is a high school level course of study. It is vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills; and includes enrichment opportunities such as research, projects, and independent study.	03220100
<u>Instructional Material:</u> <i>1019 – Holt McDougal Language of Literature Texas, Grade 9, Holt McDougal, a division of Houghton Mifflin Harcourt Publishing Company, ISBN: 9780547115788; McGraw Hill Study Sync, Grade 9; ThinkCERCA Supplemental Resource</i> <u>Prerequisites:</u> FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course's availability to a student with such a request. <u>What's Next?</u> English II (or Honors) HIGH SCHOOL CREDIT AVAILABLE Students will take the English I EOC. Course taught by locally certified gifted teacher that has attended at least one AP or LTF Summer Institute for the course. Teachers teaching emergent bilingual students must be English and ESL certified.	Grade level: 8 Credit(s): 1
<b>Spanish Language Arts &amp; Reading</b>	<b>0107 A/B</b>
This course reflects language arts standards that are authentic to the Spanish language and to Spanish literacy. This course will develop in the student's vocabulary and language skills needed to function on a totally biliterate and bilingual level and continue to develop cognitive skills and metacognitive processes already begun in elementary programs. This course provides instruction to develop essential vocabulary and language skills based upon Spanish Language Arts TEKS.	03210520
<u>Instructional Material:</u> Contact Content Director <u>Prerequisites:</u> Grade 5 in a DLE or Spanish Immersion classroom <u>What's Next?</u> Teachers teaching emergent bilingual students must be bilingual certified.	Grade level: 6 Credit(s): NA

## Reading

<p><b>6<sup>th</sup> Grade Sheltered Reading AB</b></p> <p>This course focuses on improved reading comprehension strategies, which emphasizes focused, skill-building instruction. Students will engage in activities that build on their prior knowledge and skills in order to strengthen and integrate their reading, writing, listening, speaking, and oral and written language skills.</p> <p><u>Instructional Material:</u> <i>Goudvis &amp; Harvey's Reading Comprehension Toolkit, classroom, and campus library. For instructional material(s) that are not state adopted, contact content director.</i></p> <p><u>Prerequisites:</u> N/A</p> <p><u>What's Next?</u> Sheltered Reading, Grade 7 AB</p> <p>Teachers teaching emergent bilingual students must be ESL certified.</p>	<p><b>0280 A/B</b></p> <p>02810000</p> <p>Grade level: 6</p> <p>Credit(s): NA</p>
<p><b>6<sup>th</sup> Grade Structured Literacy AB</b></p> <p><b>6<sup>th</sup> Grade Sheltered Structured Literacy AB</b></p> <p>Includes targeted intervention strategies. This course focuses on building foundational reading skills to improve reading comprehension. Structured literacy explicitly teaches and emphasizes knowledge of words/word parts, vocabulary, reading fluency, and comprehension. This class is <b>mandatory</b> for students who are at or below 25<sup>th</sup> percentile on NWEA MAP Growth. Campuses must follow the provided lesson structure for the course and may not schedule as a separate literacy course or "support" class. This is not a stand-alone course and is not designed to replace the regular ELAR course. Structured literacy must be double blocked with the regular ELAR class. Maximum enrollment for this course is twenty-five (25) students. If there are more students in need of the course than scheduling permits, then students should be tiered and appropriate intervention plans must be developed for students who are not assigned to the course. Contact Executive Director of Humanities for scheduling assistance.</p> <p><b>NOTE: These courses are <u>not</u> stand-alone literacy courses and are <u>not</u> designed to replace the regular literacy course. Courses can only be used for double blocking purposes.</b></p> <p><u>Instructional Material:</u> Instructional Material: Savvas "My Perspectives" and ThinkCERCA</p> <p><u>Prerequisites:</u> This course is Mandatory for students who are at or below 25<sup>th</sup> percentile on NWEA MAP Growth</p> <p><u>What's Next?</u> N/A</p> <p>Teachers teaching emergent bilingual students must be ESL certified.</p>	<p><b>0298 A/B</b></p> <p><b>0299 A/B</b></p> <p>02810000</p> <p>Grade level: 6</p> <p>Credit(s): NA</p>
<p><b>7<sup>th</sup> Grade Sheltered Reading AB</b></p> <p>This course focuses on reading comprehension strategies, which emphasizes focused, skill building instruction. Students will engage in activities that build on their prior knowledge and skills in order to strengthen and integrate their reading, writing, listening, speaking, and oral and written language skills.</p> <p><u>Instructional Material:</u> <i>For instructional material(s) that are not state adopted, contact Literacy Director.</i></p> <p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> Sheltered Reading, Grade 8 AB</p> <p>Teachers teaching emergent bilingual students must be ESL certified.</p>	<p><b>0283 A/B</b></p> <p>03273440</p> <p>Grade level: 7</p> <p>Credit(s): NA</p>
<p><b>7<sup>th</sup> Grade Structured Literacy AB</b></p> <p><b>7<sup>th</sup> Grade Sheltered Structured Literacy AB</b></p> <p>Includes targeted intervention strategies. This course focuses on building foundational reading skills to improve reading comprehension. Structured literacy explicitly teaches and emphasizes knowledge of words/word parts, vocabulary, reading fluency, and comprehension. This class is <b>mandatory</b> for students who are at or below 25<sup>th</sup> percentile on NWEA MAP Growth. Campuses must follow the provided lesson structure for the course and may not schedule as a separate literacy course or "support" class. This is not a stand-alone course and is not designed to replace the regular ELAR course. Structured literacy must be double blocked with the regular ELAR class. Maximum enrollment for this course is twenty-five (25) students. If there are more students in need of the course than scheduling permits, then students should be tiered and appropriate intervention plans must be developed for students who are not assigned to the course. Contact Executive Director of Humanities for scheduling assistance.</p> <p><b>NOTE: These courses are <u>not</u> stand-alone literacy courses and are <u>not</u> designed to replace the regular literacy course. Courses can only be used for double blocking purposes.</b></p> <p><u>Instructional Material:</u> Instructional Material: Savvas "My Perspectives" and ThinkCERCA</p> <p><u>Prerequisites:</u> This course is Mandatory for students who are at or below 25<sup>th</sup> percentile on NWEA MAP Growth</p> <p><u>What's Next?</u> N/A</p> <p>Teachers teaching emergent bilingual students must be ESL certified.</p>	<p><b>0260 A/B</b></p> <p><b>0262 A/B</b></p> <p>03273420</p> <p>Grade level: 7</p> <p>Credit(s): NA</p>
<p><b>8<sup>th</sup> Grade Sheltered Reading AB</b></p> <p>This course focuses on improved reading comprehension strategies, which emphasizes focused, skill building instruction. Students will engage in activities that build on their prior knowledge and skills in order to strengthen and integrate their reading, writing, listening, speaking, and oral and written language skills.</p>	<p><b>0288 A/B</b></p> <p>03273450</p>

<p><u>Instructional Material:</u> <i>For instructional material(s) that are not state adopted, Contact Literacy Director.</i></p> <p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> English I A/B and Reading Improvement IA/B</p> <p>Teachers teaching EL students must be ESL certified.</p>	<p>Grade level: 8</p> <p>Credit(s): NA</p>
<p><b>6<sup>th</sup> Grade Reading for Identified Dyslexic Students AB</b></p> <p><b>7<sup>th</sup> Grade Reading for Identified Dyslexic Students AB</b></p> <p><b>8<sup>th</sup> Grade Reading for Identified Dyslexic Students AB</b></p>	<p><b>0295 A/B</b></p> <p><b>0296 A/B</b></p> <p><b>0297 A/B</b></p>
<p>This course provides an intense phonetic analysis of written language for students identified with dyslexia. Students will participate in a researched based Literacy Program including explicitly structured, multisensory, sequential and cumulative lessons. These are aligned with components of instruction for students identified with dyslexia as well as the TEKS. The recommended class size is no more than 6 students.</p>	<p>02810000</p> <p>03273440</p> <p>03273450</p>
<p><u>Instructional Material:</u> <i>No state adopted instructional material(s); locally determined instructional material(s) provided for identified dyslexic students by FWISD Dyslexia Services office.</i></p> <p><u>Prerequisites:</u> Students must be identified with dyslexia through the FWISD Dyslexia Services office, and must be cleared to participate in this class by FWISD Dyslexia Services staff. Due to House Bill 5, careful consideration must be made to prevent pulling students from Career and Technical education courses leading to an endorsement.</p> <p><u>What's Next?</u> N/A</p>	<p>Grade level: 6-8</p> <p>Credit(s): NA</p>
<p><b>8<sup>th</sup> Grade Structured Literacy AB</b></p> <p><b>8<sup>th</sup> Grade Sheltered Structured Literacy AB</b></p>	<p><b>0251 A/B</b></p> <p><b>0253 A/B</b></p>
<p>This course includes targeted intervention strategies and focuses on building foundational reading skills such as reading comprehension, knowledge of words and word parts, vocabulary, and fluency. This class is <b>mandatory</b> for students who are at or below 25th percentile on NWEA MAP Growth. Campuses must follow the provided lesson structure for the course and may not schedule as a separate literacy course or "support" class. This is not a stand-alone course and is not designed to replace the regular ELAR course. Structured literacy must be double blocked with the regular ELAR class. Maximum enrollment for this course is twenty-five (25) students. If there are more students in need of the course than scheduling permits, then students should be tiered and appropriate intervention plans must be developed for students who are not assigned to the course. Contact Executive Director of Humanities for scheduling assistance.</p> <p><b>NOTE: These courses are not stand-alone literacy courses and are not designed to replace the regular literacy course. Courses can only be used for double blocking purposes.</b></p>	<p>03273430</p>
<p><u>Instructional Material:</u> Savvas "My Perspectives" and ThinkCERCA</p> <p><u>Prerequisites:</u> This course is Mandatory for students who are at or below 25<sup>th</sup> percentile on NWEA MAP Growth</p> <p><u>What's Next?</u> N/A</p> <p>Teachers teaching emergent bilingual students must be ESL certified.</p>	<p>Grade level: 8</p> <p>Credit(s): NA</p>

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## Emergent Bilingual (EB) Students

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### Overview Information: Middle School

The courses described in this section of Bulletin 100 are those which Fort Worth ISD offers to address the needs of EB\* students at various levels of English proficiency and academic need. The courses comply with state law requirements included in...

- 19 TAC Chapter 89: Bilingual/ESL program requirements and
- TAC Chapter 74.4: Curriculum Requirements, English Language Proficiency Standards

The Language Proficiency Assessment Committee (LPAC) at each campus is responsible for ensuring that all EBs are placed in appropriate programs and for monitoring student performance throughout the year.

### Key Information about FWISD Program Designs

Fort Worth ISD offers two broad types of programs for secondary EBs:

- Newcomer Programs (includes INA and Language Centers at Daggett, Rosemont, Leonard, Meadowbrook, Riverside, Meacham, Jacquet, Morningside and William James Middle Schools)

These programs are for recent-immigrant students. The programs provide specialized ESL/ESOL and reading courses, other English "support" courses, and sheltered core content-area courses in which extensive scaffolding and linguistic accommodations as well as special materials are used. Most students are at the beginning or intermediate levels of English proficiency. Students are generally scheduled into homogeneous Newcomer Program classes but may, in some instances, be cluster-scheduled<sup>†</sup> into regular "stacked" content-area classes and identified according to the course numbers shown in this section of the course catalog. Newcomer Program courses are offered on only a few designated campuses.

- ESL These programs are for EB students who are not identified as Newcomers and have been in U.S. schools for 3+ years. Due to their time spent in U.S. schools, these students have reached a high enough level of language proficiency and academic achievement to be mainstream classrooms with scaffolded supports to continue meeting their unique needs for language acquisition. EBs receiving ESL services may be scheduled in Sheltered courses that may comprise of Sheltered English and reading courses as well as sheltered core content-area courses in which some degree of scaffolding and linguistic accommodations are provided. Most students demonstrate high intermediate to advanced levels of English proficiency. Students are to be cluster-scheduled<sup>o</sup> into regular "stacked" content-area classes and identified according to the course numbers shown in this section of the course catalog. Sheltered courses are offered in some form on all campuses.

Middle School: At middle school, the program is referred to as Transition ESL, and the ELA/R courses are called ESL, an integrated block course encompassing all language domains (Listening, Speaking, Reading and Writing). Teachers teaching the courses must be ESL certified.

\***EB = Emergent bilingual** is a term used here to refer to students:

- who come from homes where languages other than English are used **and**
- who are assessed through state tests to be less than proficient in listening, speaking, reading, or writing English.

<sup>†</sup>**Cluster-scheduled** = scheduling students in groups (not to exceed 50% of a class) into regular "stacked" classes, keeping the number of teachers assigned to the lowest number needed to provide quality programs. These instructional settings should not result in having clusters of EB students and clusters of special education students in the same classroom.

## Sheltered Course Overview Chart

**The term *sheltered* is only used to assist in appropriate scheduling of EB students. These names appear in *Bulletin 100* and the *Course Catalog*, but the term *sheltered* will not be used on grade cards.**

<b>Newcomer Program</b>			<b>Transition ESL Students</b>		
<b>Course</b>	<b>#</b>	<b>Setting</b>	<b>Course</b>	<b>#</b>	<b>Setting</b>
<b>Grade 6</b>			<b>Grade 6</b>		
ESL-NP	0064	Homogeneous within grade preferred; or in clusters with transition and/or regular program students.	ESL/TR	0084	Students to be scheduled in clusters into "stacked" classes with regular program students (or, if ESL Lab, in homogeneous settings).
ESL Lab-NP	0058		ESL Lab-TR	0082	
Sheltered Math-NP	0192		Sheltered Honors English	0087	
Sheltered Science-NP	0308		Sheltered Math	0193	
Sheltered Social Studies-NP	0328		Sheltered Honors Math	0194	
			Sheltered Honors Accelerated Math	02056	
			Sheltered Science	0310	
		Sheltered Honors Science	0321		
		Sheltered Social Studies	0330		
			Sheltered Honors Social Studies	0350	
<b>Grade 7</b>			<b>Grade 7: Honors Grade 7 courses have an additional "7" added to the regular sheltered course number.</b>		
ELLA 7	0572	Homogeneous within grade preferred; or in clusters with transition and/or regular program students.	ESL/TR	0085	Students to be scheduled in clusters into "stacked" classes with regular program students (or, if ESL Lab, in homogeneous settings).
ESL Lab-NP	0060		ESL Lab-TR	0083	
Sheltered Math-NP	0195		Sheltered Honors English	00857	
Sheltered Science-NP	0312		Sheltered Math	0197	
Sheltered Social Studies-NP	0332		Sheltered Honors Math	01977	
			Sheltered Science	0314	
			Sheltered Honors Science	03147	
		Sheltered Social Studies	0333		
			Sheltered Honors Social Studies	03337	
<b>Grade 8</b>			<b>Grade 8: Honors Grade 8 courses have an additional "8" added to the regular sheltered course number.</b>		
ELLA 8	0573	Homogeneous within grade preferred; or in clusters with transition and/or regular program students.	ESL/TR	0086	Students to be scheduled in clusters into "stacked" classes with regular program students (or, if ESL lab, in homogeneous settings.)
ESL Lab-NP	0062		ESL Lab-TR	0088	
Sheltered Math-NP	0198		Sheltered Honors English, Gr. 8	00868	
Sheltered Science-NP	0320		Sheltered Honors English I (HS#)	3089	
Sheltered Social Studies-NP	0335		Sheltered Math	0199	
			Sheltered Pre-Algebra	01998	
			Sheltered Honors Algebra (HS#)	7047	
			Sheltered Science	0322	
			Sheltered Honors Science	03228	
			Sheltered Honors Biology (HS#)	7576	
		Sheltered Social Studies	0338		
			Sheltered Honors Social Studies	03388	
			<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• ELAR teacher(s) must be content certified with ESL.</li> <li>• Math, Science, Social Studies teacher(s) must have annual EB instruction training as determined by the District.</li> </ul>		
<p>"Cluster-scheduled" = scheduling students in groups (not to exceed 50% of a class) into regular "stacked" classes, keeping the number of teachers assigned to the lowest number needed to provide quality programs. These instructional settings should not result in having clusters of EB students and clusters of special education students in the same classroom.</p>					

### English Learners Language Arts (ELLA) Courses

These courses are based on grade-level ELLA TEKS and the ELPS (English Language Proficiency Standards). Instruction is accommodated to meet the needs of students in various proficiency levels. These courses are only available at INA and Language Centers serving middle school grades.

The essential knowledge and skills as well as the student expectations for English Learners Language Arts (ELLA), Grade 7 are described in §74.4 of this title (relating to English Language Proficiency Standards) as well as subsection (b) of this section and are aligned to the knowledge and skills and student expectations in Chapter 110 of this title (relating to Texas Essential Knowledge and Skills for English Language Arts and Reading) with additional expectations for English language learners (ELLs).

English Learners Language Arts (ELLA), Grade 7 may be substituted for English Language Arts and Reading, Grade 7. All expectations apply to English Learners Language Arts (ELLA), Grade 7 students; however, it is imperative to recognize critical processes and features of second language acquisition and to provide appropriate instruction to enable students to meet these standards. This course must be paired with an ESL Lab course for additional language acquisition.

**0572A/B-ELLA 7, Grade 7AB**

**PEIMS Number: 03200531**

**Textbook(s): No state-adopted textbooks/District created curriculum**

The essential knowledge and skills as well as the student expectations for English Learners Language Arts (ELLA), Grade 8 are described in §74.4 of this title (relating to English Language Proficiency Standards) as well as subsection (b) of this section and are aligned to the knowledge and skills and student expectations in Chapter 110 of this title (relating to Texas Essential Knowledge and Skills for English Language Arts and Reading) with additional expectations for English language learners (ELLs).

English Learners Language Arts (ELLA), Grade 8 may be substituted for English Language Arts and Reading, Grade 8. All expectations apply to English Learners Language Arts (ELLA), Grade 8 students; however, it is imperative to recognize critical processes and features of second language acquisition and to provide appropriate instruction to enable students to meet these standards. This course must be paired with an ESL Lab for additional language acquisition.

**0573A/B-ELLA 8, Grade 8AB**

**PEIMS Number: 03200532**

**Textbook(s): No state-adopted textbooks/District created curriculum**

### English as a Second Language (ESL) Courses

The following courses are considered the “state-required ESL” courses; special state-adopted ESL resources are provided for these courses.

<i>Newcomer Program</i>		<i>Transition ESL Courses</i>	
<b>0064A/B</b>	<b>ESL, Grade 6</b>	<b>0084A/B</b>	<b>ESL/TR, Grade 6</b>
<b>0572</b>	<b>ELLA, Grade 7</b>	<b>0085A/B</b>	<b>ESL/TR, Grade 7</b>
<b>0573</b>	<b>ELLA, Grade 8</b>	<b>0086A/B</b>	<b>ESL/TR, Grade 8</b>

PEIMS Number: 03210530/6<sup>th</sup> Grade

**Textbook(s):** *Pearson’s myPerspective, Grade 6 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)*

PEIMS Number: 03200400/7<sup>th</sup> Grade

**Textbook(s):** *Pearson’s myPerspective, Grade 7 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)*

PEIMS Number: 03200500/8<sup>th</sup> Grade

**Textbook(s):** *Pearson’s myPerspective, Grade 8 (Texas Edition), Grade 6 Classroom Library (200 diverse titles)*

Prerequisite: None

Grade Placement: 6 – 8

These courses are based on grade-level ELAR TEKS and the ELPS (English Language Proficiency Standards). Instruction is accommodated for the proficiency level of the students (beginning-level EBs at INA and intermediate-/advanced-level EBs at the middle school Language Centers.)

**0058A/B-ESL Lab-NP, Grade 6AB**  
**0082A/B-ESL Lab-TR, Grade 6AB**  
**PEIMS Number: 03210530**  
**Textbook(s): No state-adopted textbooks/contact Director**

**0060A/B-ESL Lab-NP, Grade 7AB**  
**0083A/B-ESL Lab-TR, Grade 7AB**  
**PEIMS Number: 03200400**  
**Textbook(s): No state-adopted textbooks/contact Director**

**0062A/B-ESL Lab-NP, Grade 8AB**  
**0088A/B-ESL Lab-TR, Grade 8AB**  
**PEIMS Number: 03200500**  
**Textbook(s): No state-adopted textbooks/contact Director**

Prerequisite: None  
Grade Placement: 6 – 8

The ESL labs are elective credits based upon the Grades 6-8 ELAR TEKS as modified for ESL. The three NP labs are for students in the International Newcomer Academy and Language Centers and must be paired with ESL 6 and/or ELLA 7 or ELLA 8. The three TR labs are specifically for long-term EB students who are a part of the Transition ESL program based on LPAC recommendation. The labs focus on developing academic language and on developing student skill in listening, speaking, reading and writing text, in math or in other content areas, with the TR labs intensively focusing on academic language and discourse patterns. Students receive elective credit for ESL Lab at the appropriate grade level.

### **Sheltered Mathematics, Science, and Social Studies Courses**

EBs are expected to attain the same academic standards as all other students in content-area courses. However, to be successful, EBs must receive instruction that is “sheltered” according to their level of English proficiency and academic need. “Sheltering” means that the teacher...

- knows exactly who the EBs are and what their language and academic needs are **and**
- teaches grade-level content but consistently and intentionally integrates the English Language Proficiency Standards (ELPS) and uses scaffolded interactive language development strategies to support the students **and**
- enables them to acquire academic language and learn the academic content.

Campuses are to use the course numbers for the sheltered core-area courses included in this section of *Bulletin 100* in scheduling EBs into Newcomer Program or Transition ESL content courses to ensure (1) that the students are properly scheduled and (2) that teachers provide the appropriate language/content support (“sheltering”) in instruction.

See MATHEMATICS, SCIENCE, or SOCIAL STUDIES sections for full descriptions, course numbers, and PEIMS numbers for the various content-area courses. See previous Course Overview chart for “quick read” information.



## Special Education

### TEKS-BASED COURSE GUIDE FOR MIDDLE SCHOOL SPECIAL EDUCATION PROGRAM

#### Correlation Chart of Middle School General Education Courses and Special Education Courses

Middle School	Course #’s	General Education Course Titles	Special Education Course #’s	Special Education for Substitution in A R D	Special Education Course #	Special Education Title/Name
English Language Arts	0041	English Language Arts, Grade 6 A/B	0051	Basic English Language Arts, Grade 6 A/B	0029 A/B	English Language Arts Grade 6 ALT AB
	0042	English Language Arts, Grade 7 A/B	0052	Basic English Language Arts, Grade 7 A/B	0031 A/B	English Language Arts Grade 7 ALT AB
	0043	English Language Arts, Grade 8 A/B	0053	Basic English Language Arts, Grade 8 A/B	0033 A/B	English Language Arts Grade 8 ALT AB
Mathematics	0200	Mathematics, Grade 6 A/B	0214	Basic Mathematics, Grade 6 A/B	0213 A/B	Mathematics Grade 6 ALT AB
	0202	Mathematics, Grade 7 A/B	0216	Basic Mathematics, Grade 7 A/B	0215 A/B	Mathematics Grade 7 ALT AB
	0203	Mathematics, Grade 8 A/B	0218	Basic Mathematics, Grade 8 A/B	0217 A/B	Mathematics Grade 8 ALT AB
Science	0300	Science, Grade 6 A/B	0316	Basic Science, Grade 6 A/B	0307 A/B	Science Grade 6 ALT AB
	0304	Science, Grade 7 A/B	0317	Basic Science, Grade 7 A/B	0309 A/B	Science Grade 7 ALT AB
	0305	Science, Grade 8 A/B	0318	Basic Science, Grade 8 A/B	0311 A/B	Science Grade 8 ALT AB
Social Studies	0331	Social Studies, Grade 6 A/B	0346	Basic Social Studies, Grade 6 A/B	0339 A/B	Social Studies Grade 6 ALT AB
	0336	Social Studies, Grade 7 A/B	0347	Basic Social Studies, Grade 7 A/B	0340 A/B	Social Studies Grade 7 ALT AB
	0337	Social Studies, Grade 8 A/B	0348	Basic Social Studies, Grade 8 A/B	0343 A/B	Social Studies Grade 8 ALT AB
Health					0155AB 0157AB 0159 AB	Personal Health/Hygiene I Personal Health/Hygiene I Personal Health/Hygiene I
Physical Education	0174	Moving to Wellness, Grade 6 A/B				
	0172	Physical Education, Grade 7 A/B				
	0173	Physical Education, Grade 8 A/B				

**SPECIAL EDUCATION - MIDDLE SCHOOL**

*The following courses are offered to those students who require a curriculum for instruction that is TEKS-based. The ARD Committee determines that a student's level of mastery of the TEKS for a subject area will be different than the expectations for the general population. The ARD Committee will specify the content the student is expected to master. The content should be related to the post-secondary goals of the student. The modified content expectations, goals, and objectives are clearly articulated in the student's Individual Education Plan (IEP) including accommodations for providing appropriate instruction and accommodations for measuring mastery. Decisions regarding enrollment are made by the ARD Committee.*

*State textbooks for students with special needs are available at the campus level. The Special Education Resource Service (SERS) is a center which can be contacted to access supplementary curricula if needed to meet students' individual needs. SERS staff can be reached by calling 817.815.5490.*

**0051A/B—Basic English Language Arts, Grade 6AB**

Prerequisite: English recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6

Coursework taken in lieu of general education English #0041. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0052A/B—Basic English Language Arts, Grade 7AB**

Prerequisite: English recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 7

Coursework taken in lieu of general education English #0042. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0053A/B—Basic English Language Arts, Grade 8AB**

Prerequisite: English recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 8

Coursework taken in lieu of general education English #0043. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0214A/B—Basic Mathematics, Grade 6AB**

Prerequisite: Mathematics recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6

Coursework taken in lieu of general education Mathematics #0200. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0216A/B—Basic Mathematics, Grade 7AB**

Prerequisite: Mathematics recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 7

Coursework taken in lieu of general education Mathematics #0202. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0218A/B—Basic Mathematics, Grade 8AB**

Prerequisite: Mathematics recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 8

Coursework taken in lieu of general education Mathematics #0203. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0316A/B—Basic Science, Grade 6AB**

Prerequisite: Science recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6

Coursework taken in lieu of general education Science #0300. Instruction is provided at the student's enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0317A/B—Basic Science, Grade 7AB**

Prerequisite: Science recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 7

Coursework taken in lieu of general education Science #0304. Instruction is provided at the student’s enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0318A/B—Basic Science, Grade 8AB**

Prerequisite: Science recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 8

Coursework taken in lieu of general education Science #0305. Instruction is provided at the student’s enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee

**0346A/B—Basic Social Studies, Grade 6AB**

Prerequisite: Social Studies recommended by the ARD Committee as a special education course and incorporated into The ARD schedule of Services.

Grade Placement: 6

Coursework taken in lieu of general education Social Studies #0331. Instruction is provided at the student’s enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0347A/B—Basic Social Studies, Grade 7AB**

Prerequisite: Social Studies recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 7

Coursework taken in lieu of general education Social Studies #0336. Instruction is provided at the student’s enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**0348A/B—Basic Social Studies, Grade 8AB**

Prerequisite: Social Studies recommended by the ARD Committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 8

Coursework taken in lieu of general education Social Studies #0337. Instruction is provided at the student’s enrolled grade level, in a Special Education setting with modification of TEKS, as determined by the ARD Committee.

**SPECIAL EDUCATION SIGNIFICANTLY MODIFIED CURRICULUM**

*(Functional/Life Skills)*

***The following courses are offered to those students who require a significantly modified curriculum for instruction in any or all of the instructional areas. These courses are designed for students’ focus on academics, functional, and life-skills and should relate to the post-secondary goals of the student. Decisions regarding enrollment are made by the ARD committee.***

***State textbooks for students with special needs are available at the campus level. The Special Education Resource Service (SERS) is a center which can be contacted to access supplementary curricula, if needed to meet students’ individual needs. SERS staff can be reached by calling 817.815.5490.***

**0029A/B – English Language Arts Grade 6 ALT AB**

**0031A/B - English Language Arts Grade 7 ALT AB**

**0033A/B - English Language Arts Grade 8 ALT AB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6 - 8

Credits: 1 – 3

Communication coursework addresses basic functional skills in English that are necessary for daily living. These courses are to be taken in lieu of English 6-8 and/or Basic English 6-8.

**0213A/B – Mathematics Grade 6 ALT AB**

**0215A/B - Mathematics Grade 7ALT AB**

**0217A/B - Mathematics Grade 8 ALT AB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6 - 8                      Credits: 1 – 3

Basic functional skills in mathematics that are necessary for daily living are addressed. These courses are to be taken in lieu of Mathematics 6-8 and/or Basic Mathematics 6-8.

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**0276A/B - Reading Strategies and Skills IAB**

**0277A/B - Reading Strategies and Skills IIAB**

**0278A/B - Reading Strategies and Skills IIIAB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6 - 8                      Credits: 1 – 3

Basic strategies and skills that are necessary for word recognition and reading comprehension are taught. These courses are to be taken in lieu of Reading 6-8 and/or Basic Reading 6-8.

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**0307A/B – Science Grade 6 ALT AB**

**0309A/B – Science Grade 7 ALT AB**

**0311A/B – Science Grade 8 ALT AB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 6 - 8                      Credits: 1 – 3

Basic science concepts that are necessary for daily living are addressed. These courses are to be taken in lieu of Science 6-8 and/or Basic Science 6-8.

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**0339A/B – Social Studies Grade 6 ALT AB**

**0340A/B – Social Studies Grade 7 ALT AB**

**0343A/B - Social Studies Grade 8 ALT AB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a special education course.

Grade Placement: 6 - 8                      Credits: 1 – 3

Basic social studies concepts that are necessary for daily living are addressed. These courses are to be taken in lieu of Social Studies 6-8 and/or Basic Social Studies 6-8.

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**0155A/B - Personal Health/Hygiene IAB**

**0157A/B - Personal Health/Hygiene IIAB**

**0159A/B - Personal Health/Hygiene IIIAB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a special education course incorporated into the ARD schedule of services.

Grade Placement: 6 - 8                      Credits: 1 – 3

Basic skills that are necessary to maintain health and personal hygiene are addressed. These courses are to be taken in lieu of Health 6-8 and/or Basic Health` 6-8.

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**0785A/B - Community Skills IAB**

**0787A/B - Community Skills IIAB**

**0789A/B - Community Skills IIIAB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a Special Education Elective course and incorporated into the ARD schedule of services.

Grade Placement: 6 - 8                      Credits: 1 – 3

Critical skills necessary for independent functioning in a variety of community environments are addressed.

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**0779A/B – Activities of Daily Living IAB**

**0781A/B – Activities of Daily Living IIAB**

**0783A/B – Activities of Daily Living IIIAB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a Special Education Elective course and incorporated into the ARD schedule of services.

Grade Placement: 6 – 8 Credits: 1 – 3

Self-help skills necessary for success in life are addressed.

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**0773A/B – Recreation/Leisure IAB**

**0775A/B – Recreation/Leisure IIAB**

**0777A/B – Recreation/Leisure IIIAB**

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee as a Special Education Elective course and incorporated into the ARD schedule of services.

Grade Placement: 6 - 8 Credits: 1 – 3

Various skills that can be incorporated into a student's instructional program to develop or increase the ability to constructively use leisure time are addressed.

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**0291A/B – Basic Reading VIAB**

**0292A/B – Basic Reading VIIAB**

**0293A/B – Basic Reading VIIIAB**

Prerequisite: Reading recommended by the ARD Committee and reflected on ARD schedule page

Grade Placement: 6 - 8 Credits: 1

Coursework taken in lieu of general education Reading. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

# Mathematics

## Mathematics Recommended Course Sequence and Testing Guide

	Traditional		Advanced		Accelerated	
<b>6th</b>	Gr 6 Math: 0200	STAAR Gr 6	Advanced Gr 6 Math: 0204	STAAR Gr 6	Accelerated Gr 6 Math: 0205	STAAR Gr 8
<b>7th</b>	Gr 7 Math: 0202	STAAR Gr 7	Advanced Gr 7 Math: 0207	STAAR Gr 8	Honors Algebra I: 7055	Alg I EOC
<b>8th</b>	Gr 8 Math: 0203	STAAR Gr 8	Honors Algebra I: 7055	Alg I EOC	Honors Geometry: 7073	STAAR Gr 8
<b>9th</b>	Algebra I: 7051	Alg I EOC	Honors Geometry: 7073	PSAT	Honors Algebra II: 7057 or OnRamps College Alg: 7050	PSAT
<b>10th</b>	Geometry: 7071	PSAT	Honors Algebra II: 7057 or OnRamps College Alg: 7050	PSAT	Honors Precalculus: 7123 AP Precalculus or OnRamps Precalculus: 7119	PSAT SAT, ACT TSI
<b>11th</b>	Algebra II: 7053	ACT SAT TSI	Honors Precalculus: 7123 or OnRamps Precalculus: 7119	ACT SAT TSI	AP/DC/OnRamps Math Electives or Ind Study	SAT ACT TSI
<b>12th</b>	4th Math or CTE Equivalent	ACT SAT TSI	AP/DC/OnRamps Math Electives or Ind Study	Exams vary by course	AP/DC/OnRamps Math Electives or Ind Study	Exams vary by course

<b>Gr 6 Mathematics</b>	<b>0200 A/B</b>
<b>Sheltered Gr 6 Mathematics - NP</b>	<b>0192 A/B</b>
<b>Sheltered Gr 6 Mathematics</b>	<b>0193 A/B</b>
Provides instruction in concepts and skills associated with numbers, operations and computation, problem solving, measurement, geometry, algebra, probability, statistics, and graphing. Instruction focuses on problem-solving strategies, manipulatives, and the appropriate use of technology.	02820000
<u>Instructional Material:</u> <i>Carnegie Learning, Texas Middle School Math Solution, Grade 6</i>	
<u>Prerequisites:</u> Gr 5 Mathematics	Grade level: 6
<u>What's Next?</u> Gr 7 Mathematics	Credit(s): N/A
<b>Students will take STAAR Gr 6 Mathematics Assessment.</b> All Newcomer Program teachers must be content and ESL certified.	
<b>Gr 6 Advanced Mathematics</b>	<b>0204 A/B</b>
<b>Sheltered Gr 6 Advanced Mathematics</b>	<b>0194 A/B</b>
Establishes the foundation for success in the Advanced Placement Mathematics curriculum. Includes all of the Grade 6 Mathematics objectives/TEKS and many of the Grade 7 Mathematics objectives/TEKS with both relationships between integers, exploring functions of graphs, investigating square and square roots, and writing and calculating simple equations and equalities from problem-solving situations. Instruction focuses on problem-solving strategies, hand-on activities, and using technology.	02820000
<u>Instructional Material:</u> <i>Carnegie Learning, Texas Middle School Math Solution, Accelerated Grade 6</i>	
<u>Prerequisites:</u> Gr 5 Mathematics and student/family interest	Grade level: 6
<u>What's Next?</u> Gr 7 Advanced Mathematics	Credit(s): N/A
<b>Students will take STAAR Gr 6 Mathematics Assessment.</b>	

<b>Gr 6 Accelerated Mathematics</b>	<b>0205 A/B</b>
<b>Sheltered Gr 6 Accelerated Mathematics</b>	<b>02056 A/B</b>
Establishes the foundation for success in the Advanced Placement curriculum: Includes all the Grade 6, 7 and 8 objectives/TEKS, Mathematics objectives with both independent and guided extension in algebraic concepts, ordering rational numbers, and investigating relationships all forms of rational numbers, exploring functions of graphs, investigating irrational numbers, solving equations and inequalities, proportional and non-proportional relationships. Instruction will focus on objectives in the Texas College and Career Readiness Standards (CCRS). Instruction will focus on applying methods to examine and solve real-world problems as preparation for success in Algebra. Instruction focuses on problem-solving strategies, hands-on activities, and using technology. This course is not available at all campuses.	03103100
<u>Instructional Material:</u> <i>CollegeBoard SpringBoard, Course 1, 2, and 3</i>	
<u>Prerequisites:</u> Gr 5 Mathematics, student/family interest, and teacher recommendation	Grade level: 6
<u>What's Next?</u> Honors Algebra I	Credit(s): N/A
<b>Students will take STAAR Gr 8 Mathematics Assessment.</b>	
<b>Gr 7 Mathematics</b>	<b>0202 A/B</b>
<b>Sheltered Gr 7 Mathematics - NP</b>	<b>0195 A/B</b>
<b>Sheltered Gr 7 Mathematics</b>	<b>0197 A/B</b>
Provides instruction in concepts and skills associated with numbers, operations with fractions, rational numbers, exponents, problem solving, measurement, geometry, algebra, probability, statistics, and graphing. Instruction focuses on the use of manipulatives, problem-solving strategies, and technology.	03103000
<u>Instructional Material:</u> <i>Carnegie Learning, Texas Middle School Math Solution, Grade 7</i>	
<u>Prerequisites:</u> Gr 6 Mathematics	Grade level: 7
<u>What's Next?</u> Gr 8 Mathematics	Credit(s): N/A
<b>Students will take STAAR Gr 7 Mathematics Assessment.</b>	
All Newcomer Program teachers must be content and ESL certified.	
<b>Gr 7 Advanced Mathematics</b>	<b>0207 A/B</b>
<b>Sheltered Gr 7 Advanced Mathematics</b>	<b>01977 A/B</b>
Establishes the foundation for success in the Advanced Placement Mathematics curriculum. Includes the remainder of the Grade 7 objectives/TEKS not addressed in Grade 6 Honors and all of the Grade 8 objectives/TEKS with both independent and guided extensions in the area of variable expressions, solving equations and inequalities, ration/proportions in problem-solving situations, exploring binomial operations, quadratic equations, fractions, and square roots. Instruction focuses on applying methods to examine and solve a variety of real-world problems as preparation for success in algebra. Problem-solving technology and hands-on activities are emphasized.	03103000
<u>Instructional Material:</u> <i>Carnegie Learning, Texas Middle School Math Solution, Accelerated Grade 7</i>	
<u>Prerequisites:</u> Gr 6 Advanced Mathematics and student/family interest	Grade level: 7
<u>What's Next?</u> Pre-Algebra or Honors Algebra I	Credit(s): N/A
<b>Students will take STAAR Gr 8 Mathematics Assessment.</b>	
<b>Gr 8 Mathematics</b>	<b>0203 A/B</b>
<b>Sheltered Gr 8 Mathematics - NP</b>	<b>0198 A/B</b>
<b>Sheltered Gr 8 Mathematics</b>	<b>0199 A/B</b>
Provides instruction in concepts and skills associated with numbers, operations with rationales, problem solving, tables, measurement, geometry, probability, statistics, graphing, fractions in expressions and equations, meaning of negative numbers, pattern recognition and proportional reasoning, constructing numerical equations, attacking word problems successfully, variables, equality and inequality, operations on equations and inequalities. The primary goal is to prepare students for success in algebra. Instruction focuses on problem-solving, manipulatives, and the use of technology.	03103100
<u>Instructional Material:</u> <i>Carnegie Learning, Texas Middle School Math Solution, Grade 8</i>	
<u>Prerequisites:</u> Gr 7 Mathematics	Grade level: 8
<u>What's Next?</u> Algebra I	Credit(s): N/A
<b>Students will take STAAR Gr 8 Mathematics Assessment.</b>	
All Newcomer Program teachers must be content and ESL certified.	
<b>Gr 8 Pre-Algebra</b>	<b>0219 A/B</b>
<b>Sheltered Gr 8 Pre-Algebra</b>	<b>01998 A/B</b>
Establishes the foundation for success in the high school course sequence. Includes all of the Grade 8 Mathematics objectives/TEKS with both independent and guided extensions in evaluating expressions, solving one-step equations and inequalities, solving multi-step equations and inequalities, study of functions and graphing, study of ratio, proportional reasoning, and percents, study of probability and statistics, study of geometry and measurement, applying algebra to geometric concepts, and study of monomials and polynomials. Instruction focuses on applying methods to examine and solve a variety of real-world problems as preparation for success in algebra. Problem solving, technology, and hands-on activities are emphasized.	03103100
<u>Instructional Material:</u> <i>CollegeBoard SpringBoard Mathematics Course 3, College Board; ISBN: 9781457301223</i>	
<u>Prerequisites:</u> Gr 7 Mathematics and student/family interest	Grade level: 8
<u>What's Next?</u> Honors Algebra I	Credit(s): N/A
<b>Students will take STAAR Gr 8 Mathematics Assessment.</b>	

**Students in the Honors Algebra I courses are required to take the state End of Course (EOC) assessment for Algebra I.**

<b>Honors Algebra I</b>	<b>7055 A/B</b>
<b>Sheltered Honors Algebra I</b>	<b>7047 A/B</b>
Establishes the foundation for success in the Advanced Placement Mathematics curriculum. Includes all of the regular Algebra I course with extensions, both independent and guided, in the application of algebraic concepts, the analysis of the historical development of algebra, and the relationship of the major ideas of algebra and geometry. High school credit is available upon the successful completion of both semesters. Grades will not be used in the calculation of high school GPA.	03100500
<u>Instructional Material:</u> <i>CollegeBoard SpringBoard Algebra I, College Board; ISBN: 9781457300394</i>	
<u>Prerequisites:</u> Gr 6 Accelerated Mathematics, Gr 7 Advanced Mathematics, Pre-Algebra AB or Gr 8 Mathematics or the equivalent (90% or above on a CBE for Mathematics, Grade 8AB), STAAR/NWEA Map Scores, student grades, good attendance, and student/family interest.	Grade level: 7-8 Credit(s): 1
<u>What's Next?</u> Honors Geometry or Geometry	
<i>Course taught by a locally certified gifted teacher or AP trained teacher</i>	
<b>Students will take STAAR Algebra I EOC.</b> HIGH SCHOOL CREDIT AVAILABLE.	
<b>Honors Geometry AB</b>	<b>7073 A/B</b>
<b>Sheltered Honors Geometry AB</b>	<b>7074 A/B</b>
Extends and builds on the foundation for the Advanced Placement program. Includes all of regular geometry course with extensions, both independent and guided, from advanced topics. Instruction focuses on the use of higher levels of understanding, such as relationships of ideas, analysis of investigations, and predictions of results. Geometry is required for graduation.	03100700
<u>Instructional Material:</u> <i>CollegeBoard SpringBoard Geometry, College Board; ISBN: 9781457300400</i>	
<u>Prerequisites:</u> Algebra I or Honors Algebra I and student/family interest	Grade level: 8 Credit(s): 1
<u>What's Next?</u> Algebra II or Honors Algebra II	
<i>Course taught by a locally certified gifted teacher or AP trained teacher</i>	
<b>Students will take STAAR Gr 8 Mathematics Assessment.</b> HIGH SCHOOL CREDIT AVAILABLE.	
<b>Gr 6 Enhanced Mathematics AB</b>	<b>0201 A/B</b>
<b>Gr 7 Enhanced Mathematics AB</b>	<b>0206 A/B</b>
Provides additional strategies and support so that students gain a foundation in mathematical thinking and reasoning. The course will strengthen mathematical concepts, relationships, and experiences. Students will use tools (including calculators), techniques, and models to develop their understanding of mathematics and to improve their ability to solve problems. A strong emphasis will be placed on the communication of mathematical ideas and solutions. <b>NOTE: These courses are <u>not</u> stand-alone mathematics courses and are <u>not</u> designed to replace the regular math course. Courses can only be used for double blocking purposes.</b>	84100028  Grade level: 6 or 7 Credit(s): 0
<u>Instructional Material:</u> <i>No State adopted instructional material(s)/Contact Content Director</i>	
<u>Prerequisites:</u> Previous Grade level and concurrent enrollment in Mathematics, Gr 6 or Gr 7	
<u>What's Next?</u> N/A (Assignment is made by individual student's STAAR assessment scores.)	
Local Credit Only	
<b>Mathematics Laboratory: Problem Solving Approach</b>	<b>0222 A/B</b>
Provides an opportunity for students with a high interest in mathematics to further mathematical understanding and knowledge through laboratory and discovery activities. Encourages students to have fun with mathematics while exploring such topics as, but not limited to, number sense patterns, modular arithmetic, points of concurrency, perfect numbers, matrix logic, unit analysis, and folding patterns, while using a variety of problem-solving techniques.	84100001
<u>Instructional Material:</u> <i>No State adopted textbook/Contact Content Director</i>	
<u>Prerequisites:</u> None	Grade level: 8 Credit(s): 0
<u>What's Next?</u> N/A	
Local Credit Only (Elective Math Course)	
<b>Texas Pre-Freshman Engineering Program IAB</b>	<b>7421 A/B</b>
<b>Texas Pre-Freshman Engineering Program IIAB</b>	<b>7423 A/B</b>
Available at Texas Wesleyan University as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. This course is for state elective credit only. <b>Credit toward high school graduation will be placed on the AAR upon successful completion of both semesters of the course. Grades will not be calculated into high school GPA.</b>	N1303752 N1303753
<u>Instructional Material:</u> <i>Materials &amp; textbooks to be provided by participating university.</i>	
<u>Prerequisites:</u> Average of 80 or higher in college preparatory Mathematics and teacher recommendation	Grade level: 7-8 Credit(s): 1-2
<u>What's Next?</u> N/A	



## Science

### Science Recommended Course Sequence and Testing

	Traditional		Advanced		Advanced Placement (AP) /OnRamps/ Dual Credit (DC)	
<b>6<sup>th</sup></b>	Gr 6 Science: 0300	None	Gr 6 Advanced Science: 0313	None	Gr 6 Advanced Science: 0313	None
<b>7<sup>th</sup></b>	Gr 7 Science: 0304	None	Gr 7 Advanced Science: 0303	STAAR Gr 8	Gr 7 Advanced Science: 0303	STAAR Gr 8
<b>8<sup>th</sup></b>	Gr 8 Science: 0305	STAAR Gr 8	Grade 8 Science: 0305 or Honors Biology: 7574	STAAR Gr 8 or Bio EOC	Honors Biology: 7574	Bio EOC
<b>9<sup>th</sup></b>	Biology: 7572 or Integrated Physics/Chemistry: 7532	Bio EOC or None	Honors Chemistry: 7594 or Honors Biology: 7574	None or Bio EOC	Honors Biology: 7574 or Honors Chemistry: 7594 or AP Physics: 7625	Bio EOC or None
<b>10<sup>th</sup></b>	Biology: 7572 or Chemistry: 7592 or Physics: 7614	Bio EOC or PSAT Exams vary by course	Honors Chemistry: 7594 or Honors Biology: 7574	Bio EOC or PSAT Exams vary by course	Honors Chemistry: 7594 or AP Physics: 7625 or Honors Biology: 7574	Bio EOC or PSAT Exams vary by course
<b>11<sup>th</sup></b>	Chemistry: 7592 or Physics: 7614	PSAT SAT ACT	AP/DC Science Elective or Advanced Science	Exams vary by course	AP/DC/OnRamps Science Elective or Advanced Science	Exams vary by course
<b>12<sup>th</sup></b>	Advanced Science or CTE Equivalent	PSAT SAT ACT	AP/DC/OnRamps Science Elective or Advanced Science	Exams vary by course	AP/DC/OnRamps Science Elective or Advanced Science	Exams vary by course

<b>Gr 6 Science</b>	<b>0300 A/B</b>
<b>Sheltered Gr 6 Science - NP</b>	<b>0308 A/B</b>
<b>Sheltered Gr 6 Science</b>	<b>0310 A/B</b>
In Grades 6 through 8 Science, content is organized into recurring strands. The concepts within each grade level build on prior knowledge, prepare students for the next grade level, and establish a foundation for high school courses. In Grade 6, the following concepts will be addressed in each strand: scientific and engineering practices; recurring themes and concepts; matter and energy; force, motion, and energy; earth and space; and organisms and environments.	03060600
<u>Instructional Material:</u> <i>Savvas Texas Experience Science Grade 6</i>	
<u>Prerequisites:</u> Gr 5 Science	Grade level: 6
<u>What's Next?</u> Gr 7 Science	Credit(s): N/A
All Newcomer Program teachers must be content and ESL certified.	
<b>Gr 6 Advanced Science</b>	<b>0313 A/B</b>
<b>Sheltered Gr 6 Advanced Science</b>	<b>0321 A/B</b>
Students taking this advanced course will focus on science and engineering practices; recurring themes and concepts; matter and energy; force, motion, and energy; earth and space; and organisms and environments in an accelerated fashion. This course will include all of the Grade 6 Science objectives/TEKS and many of the Grade 7 or 8 Science objectives/TEKS.	03060600
<u>Instructional Material:</u> <i>Savvas Texas Experience Science Grade 6 and Grade 7</i>	
<u>Prerequisites:</u> Grade 5 Science and student/family interest.	Grade level: 6
<u>What's Next?</u> Gr 7 Advanced Science or Gr 7 Science	Credit(s): N/A

<b>Gr 7 Science</b>	<b>0304 A/B</b>
<b>Sheltered Gr 7 Science - NP</b>	<b>0312 A/B</b>
<b>Sheltered Gr 7 Science</b>	<b>0314 A/B</b>
In Grades 6 through 8 Science, content is organized into recurring strands. The concepts within each grade level build on prior knowledge, prepare students for the next grade level, and establish a foundation for high school courses. In Grade 7, the following concepts will be addressed in each strand: scientific and engineering practices; recurring themes and concepts; matter and energy; force, motion, and energy; earth and space; and organisms and environments.	03060700
<u>Instructional Material:</u> <i>Savvas Texas Experience Science Grade 7</i>	
<u>Prerequisites:</u> Gr 6 Science	Grade level: 7
<u>What's Next?</u> Gr 8 Science	Credit(s): N/A
All Newcomer Program teachers must be content and ESL certified.	
<b>Gr 7 Advanced Science</b>	<b>0303 A/B</b>
<b>Sheltered Gr 7 Advanced Science</b>	<b>03147 A/B</b>
The 7th Grade Advanced Science Course establishes the foundations for success in the Advanced Placement curriculum. Students taking this accelerated course will focus on science and engineering practices; recurring themes and concepts; matter and energy; force, motion, and energy; earth and space; and organisms and environments in an accelerated fashion. This course will include a review of the Grade 6 Science objectives/TEKS and the remainder of the Grade 7 Science objectives/TEKS not addressed in Grade 6 Advanced and all of the Grade 8 Science objectives/TEKS.	03060700
<u>Instructional Material:</u> <i>Savvas Texas Experience Science Grade 6, 7, 8</i>	
<u>Prerequisites:</u> Gr 6 Science, Gr 6 Advanced Science and/or student/family interest	Grade level: 7
<u>What's Next?</u> Honors Biology or Integrated Physics/Chemistry or Gr 8 Science	Credit(s): N/A
<b>Students will take STAAR Gr 8 Science.</b>	
<b>Gr 8 Science</b>	<b>0305 A/B</b>
<b>Sheltered Gr 8 Science - NP</b>	<b>0320 A/B</b>
<b>Sheltered Gr 8 Science</b>	<b>0322 A/B</b>
In Grades 6 through 8 Science, content is organized into recurring strands. The concepts within each grade level build on prior knowledge, prepare students for the next grade level, and establish a foundation for high school courses. In Grade 8, the following concepts will be addressed in each strand: scientific and engineering practices; recurring themes and concepts; matter and energy; force, motion, and energy; earth and space; and organisms and environments.	03060800
<u>Instructional Material:</u> <i>Savvas Texas Experience Science Grade 8</i>	
<u>Prerequisites:</u> Grade 7 Science or Gr 7 Advanced Science	Grade level: 8
<u>What's Next?</u> Biology, Honors Biology, or Integrated Physics and Chemistry based on student and family interest.	Credit(s): N/A
<b>Students will take STAAR Gr 8 Science.</b>	
All Newcomer Program teachers must be content and ESL certified.	
<b>Honors Biology</b>	<b>7574 A/B</b>
<b>Sheltered Honors Biology</b>	<b>7576 A/B</b>
In Honors Biology, students engage in real-world data analysis and problem solving that sparks critical thinking about our living world. As students engage in grade-level biology content described in the Biology AB course description, they utilize the kind of scientific reasoning skills needed to analyze the natural world and to succeed in future science and social science courses in high school, such as AP Biology, and college. Multiple opportunities to think and work like scientists include an emphasis on analytical reading and writing, strategic use of mathematics, and an expanded use of modeling. One credit of Biology is required for graduation.	03010200
<u>Instructional Material:</u> <i>Savvas Texas Experience Biology</i>	Grade level: 8
<u>Required Prerequisites:</u> Successful completion of Gr 7 Advanced Science.	Credit(s): 1
<u>What's Next?</u> Honors Chemistry, OnRamps Chemistry 1, AP Physics 1, or OnRamps Physics 1	
<u>Note:</u> Students who successfully complete both semesters of the course will receive high school credit. The grade will not be used in the computation of high school GPA.	
<b>Students will take the Biology EOC.</b>	
<b>Integrated Physics/Chemistry</b>	<b>7532 AB</b>
<b>Sheltered Integrated Physics/Chemistry</b>	<b>7528 AB</b>
In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.	03060201
<u>Instructional Material:</u> <i>Activate Learning Texas IPC</i>	Grade level: 8
<u>Required Prerequisites:</u> Successful completion of Gr 7 Advanced Science.	Credit(s): 1
<u>What's Next?</u> Biology or Honors Biology	
<u>Note:</u> Students who successfully complete both semesters of the course will receive high school credit. The grade will not be used in the computation of high school GPA.	
<b>Students will take STAAR Gr 8 Science if not previously taken in middle school.</b>	

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**Botany T**

This course should be taken concurrently with Grades 6-8 science courses. Botany provides a lab-oriented course which utilizes the metric system in the study of plants. Investigations and experiments in the study of basic parts and functions of plants, classification of plants, and independent study projects are vital components of this course. Local credit course.

**0357 T (6th) or  
0356 T (7th-8th)**  
848800037 (6th)  
84800038 (7th - 8th)

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Instructional Material: *No state adopted instructional materials*

Grade level: 6-8

Prerequisites: None

Credit(s): N/A

What's Next? N/A

*Offered only at Elder*

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**Texas Pre-Freshman Engineering Program I**

**7421 A/B or**

**Texas Pre-Freshman Engineering Program II**

**7423 A/B**

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A summer enrichment for high ability students, these courses emphasize study and research in Mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering.

N1303752 or  
N1303753

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Instructional Material: *Instructional material(s) to be provided by the participating university*

Grade level: 7-8

Prerequisites: Average of 80 or higher in college preparatory Mathematics course

Credit(s): 1 - 2

What's Next? N/A

(Elective)

State elective high school credit is available for this course. Grades earned will not be used in the calculation of high school GPA.

*Available at Texas Wesleyan University and Tarrant County College campuses.*

# Social Studies

## Social Studies & Economics Recommended Course Sequence and Testing Guide

	Traditional		Honors		Advanced Placement (AP) / Dual Credit (DC)	
<b>6th</b>	Gr 6 Social Studies: 0331	None	Honors Gr 6 Social Studies: 0325	None	Honors Gr 6 Social Studies: 0325	None
<b>7th</b>	Gr 7 Social Studies: 0336	None	Honors Gr 7 Social Studies: 0327	None	Honors Gr 7 Social Studies: 0327	None
<b>8th</b>	Gr 8 Social Studies: 0337	STAAR Gr 8	Honors Gr 8 Social Studies: 0329	STAAR Gr 8	Honors Gr 8 Social Studies: 0329	STAAR Gr 8
<b>9th</b>	World Geography: 8011	None	Honors World Geography: 8009	None	AP Human Geog: 8003 or DC World Geog: 8006	PSAT AP Exam
<b>10th</b>	World History: 8033 or Ethnic Studies: 8041T & 8045T	PSAT	Honors World History: 8035 or Ethnic Studies: 8041T & 8045T	PSAT	AP Modern World Hist: 8037 or DC World Hist: 8034	PSAT SAT AP Exam
<b>11th</b>	US History Since 1877: 8056 SS Electives	PSAT SAT US Hist EOC	Honors US History Since 1877: 8066 AP/DC SS Electives	SAT US Hist EOC	AP US Hist: 8215 or DC US Hist: 8042 or OnRamps US History: 8049 AP/DC SS Electives	SAT US Hist EOC AP Exam
<b>12th</b>	US Gov & Econ or PFL/ECO: 8076T & 8096T or 8148T SS Electives	PSAT SAT	US Gov & Econ or PFL/ECO: 8076T & 8096T or 8148T AP/DC SS Electives	SAT	AP US Gov & AP Econ: 8135T & 8098T or DC US Gov & DC Econ: 8079T & 8094T AP/DC SS Electives	Exams vary by course

### Gr 6 Social Studies

**0331 A/B**

### Sheltered Gr 6 Social Studies – NP

**0328 A/B**

### Sheltered Gr 6 Social Studies

**0330 A/B**

The emphasis of this course is the study of people and places of the contemporary world. Societies selected for study include: Europe, Russia, and the Eurasian republics, the Americas, Southwest Asia-North Africa, Sub-Saharan Africa, Australia and the Pacific Realm. Students examine and evaluate the influence of individuals and groups on historical and contemporary events. A key focus of this course is an examination of the effects of geography in historical and contemporary events.

02660060

Instructional Material: 0670 – National Geographic: World Cultures and Geography (Texas Grade 6), Cengage Learning, 2014, ISBN: 9781305223967

Prerequisites: None

Grade level: 6

What's Next? Gr 7 Social Studies – Texas History

Credit(s): N/A

All Newcomer Program teachers must be content and ESL certified.

### Gr 6 Social Studies Honors

**0325 A/B**

### Sheltered Gr 6 Social Studies Honors

**0350 A/B**

The Honors course establishes the foundation for success in the Advanced Placement Social Studies curriculum through increased requirements, including independent study, authentic assessments, the History Fair, and outside-readings. It requires highly motivated students who desire a more in-depth study of history.

02660060

Instructional Material: 0670 – National Geographic: World Cultures and Geography (Texas Grade 6), Cengage Learning, 2014, ISBN: 9781305223967

Prerequisites: Student interest

Grade level: 6

What's Next? Honors Gr 7 Social Studies - Texas History

Credit(s): N/A

<b>Gr 7 Social Studies</b>	<b>0336 A/B</b>
<b>Sheltered Gr 7 Social Studies - NP</b>	<b>0332 A/B</b>
<b>Sheltered Gr 7 Social Studies</b>	<b>0333 A/B</b>
This course is a study of the history of Texas from early times to the present. It focuses on the full scope of Texas history including the cultures of Native Americans living in Texas prior to European exploration and colonization. Major themes of revolution, independence, republic, and statehood are emphasized. The impact of individuals, events, and issues from each of these periods is examined and evaluated.	03343000
<u>Instructional Material:</u> 0770 – <i>Texas History (Texas Grade 7)</i> , Houghton Mifflin Harcourt, 2014, ISBN: 9780544549364	
<u>Prerequisites:</u> None	Grade level: 7
<u>What's Next?</u> Gr 8 Social Studies - U. S. Colonization – Reconstruction	Credit(s): N/A
All Newcomer Program teachers must be content and ESL certified.	
<b>Gr 7 Social Studies Honors</b>	<b>0327 A/B</b>
<b>Sheltered Gr 7 Social Studies Honors</b>	<b>03337 A/B</b>
The Honors course establishes the foundation for success in the Advanced Placement Social Studies curriculum through increased requirements including independent study, authentic assessments, the History Fair, and outside readings. It requires highly motivated students who desire a more in-depth study of history.	03343000
<u>Instructional Material:</u> 0770 – <i>Texas History (Texas Grade 7)</i> , Houghton Mifflin Harcourt, 2014, ISBN: 9780544549364	
<u>Prerequisites:</u> Student interest	Grade level: 7
<u>What's Next?</u> Gr 8 Social Studies Honors - U. S. Colonization - Reconstruction	Credit(s): N/A
<b>Gr 8 Social Studies</b>	<b>0337 A/B</b>
<b>Sheltered Gr 8 Social Studies - NP</b>	<b>0335 A/B</b>
<b>Sheltered Gr 8 Social Studies</b>	<b>0338 A/B</b>
The emphasis of this course is the historical development of the United States from the early colonial period throughout Reconstruction. The course content focuses on the political, economic, and social events and issues related to the origins and development of the United States, its principles, beliefs, and institutions as reflected in the U.S. Constitution and other historical documents.	03343100
<u>Instructional Material:</u> 0875 – <i>United States History (Texas Grade 8)</i> , Houghton Mifflin Harcourt, 2014, ISBN: 98705444549005	
<u>Prerequisites:</u> None	Grade level: 8
<u>What's Next?</u> World Geography	Credit(s): N/A
All Newcomer Program teachers must be content and ESL certified.	
<b>Students will take STAAR Gr 8 Social Studies.</b>	
<b>Gr 8 Social Studies Honors</b>	<b>0329 A/B</b>
<b>Sheltered Gr 8 Social Studies Honors</b>	<b>03388 A/B</b>
The Honors course establishes the foundation for success in the Advanced Placement Social Studies curriculum through increased requirements including independent study, authentic assessments, the History Fair, and outside readings. It requires highly motivated students who desire a more in-depth study of history.	03343100
<u>Instructional Material:</u> 0875 – <i>United States History (Texas Grade 8)</i> , Houghton Mifflin Harcourt, 2014, ISBN: 98705444549005	
<u>Prerequisites:</u> Student interest	Grade level: 8
<u>What's Next?</u> Honors World Geography or AP Human Geography	Credit(s): N/A
<b>Students will take STAAR Gr 8 Social Studies.</b>	
<b>How to Study</b>	<b>0345 T (6th) or 0342 T (7th-8th)</b>
This course is designed to provide students with appropriate study skills which can be used to acquire knowledge and competence in social studies, language arts, Mathematics, and science. Emphasis is on reading and writing across the curriculum as well as the development of good study habits and problem-solving skills. The course may be taken for one semester only. Local Credit Only	82300002 or 82940002 or 83300002
<u>Instructional Material:</u> No state adopted instructional material(s)/Local credit only/Contact director.	Grade level: 6-8
<u>Prerequisites:</u> None	Credit(s): N/A
<b>Special Topics in Social Studies: Geography Themes and Perspectives AB</b>	<b>8002 A/B</b>
This course provides qualified 8 <sup>th</sup> grade students with the opportunity to engage in a rigorous and conceptually driven curriculum that will enhance their geo-literacy and prepare them for more advanced studies in geography. AP skills and habits of mind are a focus throughout the course.	03380002 (Part A) 03380022 (Part B)
<u>Instructional Materials:</u> No state adopted instructional material(s)/Local credit only/Contact director.	Grade level: 8
<u>Prerequisites:</u> Accelerated Grade 7 Science and/or Accelerated Grade 7 Math and concurrently enrolled in Grade 8 Honors Social Studies and high school level English, Science, or Math.	Credit(s): 1
<u>What's Next?</u> AP Human Geography in grade 9.	

## Fine Arts

**One middle school Fine Arts credit is required.**

**ALL fine arts courses must be taken for the full year to receive credit.**

Placement into certain courses require auditions, and/or teacher approval/recommendation.

VISUAL AND PERFORMING ARTS	1st Class Taken	2nd Class Taken	3rd Class Taken
ART			
Middle School Art	0001	0002	0003
Photographic Design*	N/A	0007	0008
Art, Level I (HS)*	N/A	N/A	1010
DANCE	01600	0160	0163
THEATRE	0077	0079	0081

\*See below

- Photographic Design **will not** satisfy the Fine Arts requirement for Middle School.
  - It will count as a Local Credit only.
- Art, Level I (HS) is available at Gold Seal Schools and Programs of Choice for 8<sup>th</sup> grade students.

**NOTE TO STUDENTS AND PARENTS: All middle school fine arts courses will be labeled as MS 1, MS 2, or MS 3. These are not tied to grade levels. The first time any student, regardless of grade level, takes a fine arts course, it will be MS 1.**

<p><b>Middle School Art 1, 2, 3</b></p> <p>Includes opportunities to create and understand art with increasing depth and range of skill, technique, creative expression, historical and cultural relevance, and critical evaluation and response. A variety of art media and materials will be used to produce artwork in drawing, painting, printmaking, sculpture, ceramics, and other art processes.</p> <p><u>Instructional Material:</u> <i>eBook A Global Pursuit, Davis Publications; ISBN: 978-1-61528-324-8</i>  <i>eBook A Personal Journey, Davis Publications; ISBN: 978-1-161528-322-4</i>  <i>eBook A Community Connection, Davis Publications; ISBN: 978-1-61528-323-1</i></p> <p><u>Prerequisites:</u> None or previous year course  <u>What's Next?</u> Sequential course</p>	<p><b>0001 A/B, 0002 A/B, or 0003 A/B</b></p> <p>03154110, 03154210, or 03154310</p> <p>Grade level: 6-8                      Credit(s): N/A</p>
<p><b>Photographic Design</b></p> <p>Students will be challenged to develop group or individual projects such as photography portfolios, campus photo magazines, and photography exhibits in order to further the connection to careers in the photography field. Special equipment is required. (Equipment &amp; materials provided at campus level.)</p> <p><u>Instructional Material:</u> <i>Campus discretion</i>  <u>Prerequisites:</u> Middle School Art 1  <u>What's Next?</u> Sequential course  <i>Local Credit Only; does not satisfy Fine Arts Requirement.</i></p>	<p><b>0007 A/B or 0008 A/B</b></p> <p>82950XXX or 83400XXX</p> <p>Grade level: 7-8                      Credit(s): N/A</p>
<p><b>Art, Level I (HS)</b></p> <p>This rigorous high school art course covers technique, processes, and media. Includes effective use of art media and tools in design, drawing, painting, printmaking, and sculpture. Art work must demonstrate mastery of Art Elements and Principles of Design. Students must create a portfolio of exceptional artwork (12 pieces). High school credit provided upon successful completion of both semesters of this course. The grade is not used in the calculation of high school GPA. Schools must have approval from the Art Director to offer this course.</p> <p><u>Instructional Material:</u> <i>eBook The Visual Experience, Davis Publications; ISBN: 978-1-61528-328-6</i></p>	<p><b>1010 A/B</b></p> <p>03500100</p> <p>Grade level: 8</p>

<u>Prerequisites:</u> Teacher recommendation based on student portfolio and talent	Credit(s): 1
<u>What's Next?</u> Sequential course	
<u>Offered only at Programs of Choice.</u>	
<b>Middle School Dance 1</b>	<b>01600 A/B</b>
Presents a general overview and history of dance, while learning the basic elements of movement for jazz, tap, ballet, modern and world dance. The course is intended for those with little to no previous training. Students are required to participate in performances and rehearsals throughout the year. Students must complete both semesters (A/B) to receive credit for the course. Students must take and successfully pass Dance 1 prior to enrollment in Dance 2, regardless of grade level.	03154120
<u>Instructional Material:</u> <i>Contact Content Director</i>	Grade level: 6-8
<u>Prerequisites:</u> None	Credit(s): N/A
<u>What's Next?</u> Dance 2	
<i>Course does not count towards a PE credit, unless teacher is PE certified and TEKS are met.</i>	
<b>Middle School Dance 2</b>	<b>0160 A/B</b>
The course will extend the learner's knowledge of the history of dance and technique methods for jazz, tap, ballet, modern and world dance. Students are required to participate in performances and rehearsals throughout the year. Students must complete both semesters (A/B) to receive credit for the course. Students must take and successfully pass Dance 2 prior to being allowed to enroll in Dance 3, regardless of grade level.	03154220
<u>Instructional Material:</u> <i>Contact Content Director</i>	Grade level: 6-8
<u>Prerequisites:</u> Dance 1	Credit(s): N/A
<u>What's Next?</u> Dance 3	
<i>Course does not count towards a PE credit, unless teacher is PE certified and TEKS are met.</i>	
<b>Middle School Dance 3</b>	<b>0163 A/B</b>
The course will continue to extend the learner's knowledge of the history of dance and technique methods for jazz, tap, ballet, modern and world dance. Students are required to participate in performances and rehearsals throughout the year. Students must complete both semesters (A/B) to receive credit for the course.	03154320
<u>Instructional Material:</u> <i>Contact Content Director</i>	Grade level: 6-8
<u>Prerequisites:</u> Dance 2	Credit(s): N/A
<u>What's Next?</u> Dance I (HS)	
<i>Course does not count towards a PE credit, unless teacher is PE certified and TEKS are met.</i>	
<b>Middle School Theatre 1</b>	<b>0077 A/B</b>
Develops concepts about human relationships and the environment, using elements and conventions of theatre. First year students explore elements and conventions of theatre, interpret characters, voice and body expression and the relationship of theatre to history, society, and culture.	03154140
<u>Instructional Material:</u> <i>Creative Communication, Perfection Learning ISBN-10: 0931054-40-0, ISBN-13: 078-0-931054-40-2, Author Fran Averett Tanner – 43 books; Collection One Drama for Reading and Performance, Perfection Learning ISBN: 9781680644050, Various Authors – 43 books; Stages of History: Plays About American Past, Perfection Learning ISBN; Drama Network classroom material and online material</i>	Grade level: 6-8
<u>Prerequisites:</u> None	Credit(s): N/A
<u>What's Next?</u> Theatre 2	
<b>Middle School Theatre 2</b>	<b>0079 A/B</b>
Develops concepts about human relationships and the environment, using elements and conventions of theatre. Second year students learn basic acting skills, pantomime, improvisation, storytelling, character analysis, body expression and the relationship of theatre to history, society, and culture. Students must take and successfully pass Theatre 1 prior to enrolling in Theatre 2, regardless of grade of student.	03154240
<u>Instructional Material:</u> <i>Creative Communication, Perfection Learning ISBN-10: 0931054-40-0, ISBN-13: 078-0-931054-40-2, Author Fran Averett Tanner – 43 books; Collection One Drama for Reading and Performance, Perfection Learning ISBN: 9781680644050, Various Authors – 43 books; Stages of History: Plays About American Past, Perfection Learning ISBN; Drama Network classroom material and online material</i>	Grade level: 6-8
<u>Prerequisites:</u> Successful completion of Middle School Theatre 1	Credit(s): N/A
<u>What's Next?</u> Theatre 3	
<b>Middle School Theatre 3</b>	<b>0081 A/B</b>
Develops concepts about human relationships and the environment, using elements and conventions of theatre. Third year students interpret characters using the voice and body to interpret scenes and study the relationship of theatre to history, society, and culture. Students must take and successfully pass Theatre 2 prior to enrolling in Theatre 3, regardless of grade of student.	03154340
<u>Instructional Material:</u> <i>Creative Communication, Perfection Learning ISBN-10: 0931054-40-0, ISBN-13: 078-0-931054-40-2, Author Fran Averett Tanner – 43 books; Collection One Drama for Reading and Performance, Perfection Learning ISBN: 9781680644050, Various Authors – 43 books; Stages of History: Plays About American Past, Perfection Learning ISBN; Drama Network classroom material and online material</i>	Grade level: 6-8
<u>Prerequisites:</u> Successful completion of Middle School Theatre 2	Credit(s): N/A
<u>What's Next?</u> Theatre I (HS)	

<b>INSTRUMENTAL MUSIC</b>	<b>Beginner Music Level 1</b>	<b>Intermediate Music Level 2</b>	<b>Advanced Music Level 3</b>
Band	0223	0226	0228
Orchestra	0252	0189	0244
Mariachi	0233	0235	0237

**NOTE TO STUDENTS AND PARENTS: All middle school fine arts courses that were previously labeled as “levels 6, 7, or 8” are now re-labeled per the revised Fine Arts Texas Essential Knowledge and Skills (TEKS). All middle school fine arts courses will be labeled as MS 1, MS 2, or MS 3. These are not tied to grade levels. The first time any student, regardless of grade level, takes a fine arts course, it will be MS 1.**

Band, Orchestra and Mariachi classes: scheduled based on instrument interview and selection recommendation from campus director.

Middle school students in the 6th Grade will take Music, Level 1 (Band, Orchestra, Mariachi). Middle school students in the 7th or 8th grade who are taking the course for the first time should enroll in Music, Level 1 (Band, Orchestra, Mariachi). 7th and 8th grade students who have taken Music, Level 1, or who have previous music experience, may audition and be placed in either Music, Level 2 (Intermediate) or Music, Level 3 (Advanced). This placement is by Audition only. Students in 7th and 8th grade may repeat Music, Level 2 and Music, Level 3. All courses are one-year long.

<b>Middle School Band</b>	<b>See Chart</b>
Beginner course provides instruction in the techniques of playing band instruments. Emphasis is placed on tone production, mastering the fundamentals and music reading. Sub Non-Varsity, Non-Varsity, Varsity courses allow students the chance to develop tone quality and instrumental skills and techniques at the appropriate level. Attendance to all rehearsals/performances is required.	03154130, 03154230, or 03154330
<u>Instructional Material:</u> Contact Content Director	Grade level: 6-8
<u>Prerequisites:</u> Screening for appropriate instrument placement in the spring - Audition determines placement into Intermediate or Advanced.	Credit(s): N/A
<u>What's Next?</u> Sequential course Fulfills middle school fine arts requirement when taken in Grade 6. <i>All classes are scheduled for appropriate like-instrument beginning class placement and performance level.</i>	
<b>Middle School Instrumental Ensemble</b>	<b>0182, 0184, 0248</b>
Sub Non-Varsity, Non-Varsity or Varsity provide students the opportunity to develop and refine technical skills and increase music knowledge with literature selected for performance and listening. Attendance to all rehearsals/performances is required.	03154133, 03154233, or 03154333
<u>Instructional Material:</u> Contact Content Director	Grade level: 6-8
<u>Prerequisites:</u> Screening for appropriate instrument placement in the spring - Audition determines placement into Intermediate or Advanced.	Credit(s): N/A
<u>What's Next?</u> Sequential course	
<b>Middle School Mariachi Ensemble</b>	<b>See Chart</b>
Mariachi Band provides instruction in the techniques of playing the trumpet, violin, vihuela, guitar, and/or guitarron or students to learn and perform the intricate music and rhythm styles of the Latino cultural heritage. Students in this group must demonstrate a high level of commitment and superior citizenship to be successful. Mariachi performances will be given during the semester at concerts, festivals, and concerts. Attendance at all performances is required.	03154133, 03154233, or 03154333
<u>Instructional Material:</u> Contact Content Director	Grade level: 6-8
<u>Prerequisites:</u> Audition determines instrument and placement.	Credit(s): N/A
<u>What's Next?</u> Sequential course Offered only at JP Elder MS, W. James MS, Meacham MS, Rosemont MS, and Riverside MS.	
<b>Middle School Jazz Ensemble</b>	<b>0267 A/B or 0268 A/B</b>
Qualified band students will focus on musical genre other than mainstream classical and pop music as played in band with a focus on all areas of jazz music including performance technique, history, jazz literature, improvisation and interpretation.	03154235 or 03154335
<u>Instructional Material:</u> Contact Content Director	Grade level: 7-8
<u>Prerequisites:</u> Placement based on successful completion of beginning band program, student's demonstration of proficiency on his/her instrument, student interest, parental approval. Must be enrolled in primary Instrumental Ensemble.	Credit(s): N/A



What's Next? Sequential course

**Middle School Orchestra**

**See Chart**

Provides instruction in the technique of playing string instruments. Emphasis is placed on tone production, mastery of fundamentals, and music readings. Intermediate and Advanced levels develop tone quality, instrumental skills and techniques. Attendance at all performances is required.

03154132, 03154232, or  
03154332

Instructional Material: Contact Content Director

Grade level: 6-8

Prerequisites: None for beginner level - Audition determines placement into Intermediate or Advanced.

Credit(s): N/A

What's Next? Sequential course

<b>CHORAL MUSIC</b>	<b>Beginner Music Level 1</b>	<b>Intermediate Music Level 2</b>	<b>Advanced Music Level 3</b>
6 <sup>th</sup> Grade Treble	0258		
6 <sup>th</sup> Grade Tenor/Bass	0259		
Treble	0258	0264	0266
Tenor/Bass	0259	0238	0240
Show Choir*	02591	02431	02401

Choral classes: scheduled based on vocal pedagogy needs of the changing and unchanged voice from campus director.

Show Choir classes: scheduled based on audition only.

Middle school students in the 6th Grade will take Music, Level 1 (Choir). Middle school students in the 7th or 8th grade who are taking the course for the first time should enroll in Music, Level 1 (Choir). 7th and 8th grade students who have taken Music, Level 1, or who have previous music experience, may audition and be placed in either Music, Level 2 (Intermediate) or Music, Level 3 (Advanced). This placement is by Audition only. Students in 7th and 8th grade may repeat Music, Level 2 and Music, Level 3. All courses are one-year long.

**Middle School Choir**

**See Chart**

Sixth-grade Treble or Tenor/Bass Choir provides an initial instruction to develop the fundamental vocal methods, techniques, music literacy, and music theory.

Beginner Treble or Tenor/Bass Choir provides initial instruction to develop the fundamental vocal methods, techniques, music literacy and theory used in Intermediate and Advanced Middle School choral performing ensembles. Students in Intermediate and Advanced choral ensembles, **by audition and teacher placement only**. Attendance at all performances and evaluations are required for all choral ensembles.

Instructional Material: Contact Content Director

Grade level: 6-8

Prerequisites: None for beginner level - Audition determines placement into Intermediate or Advanced.

Credit(s): N/A

What's Next? Sequential course

*All class assignments are based on vocal pedagogy needs of the changing and unchanged voice and must be scheduled appropriately for correct pedagogical placement.*

**Show Choir\***

**See Chart**

Show Choir provides training in different styles of repertoire, choreography, and showmanship in preparation for advanced performing show choirs in middle school. *The student can earn PE credit for Level 2/3, Show Choir 02431AB/02401AB as a TEKS-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per week if it is not being used to satisfy another requirement. The teacher does not have to be certified in PE. See Health & Physical Education section for course #.*

Instructional Material: Contact Content Director

Grade level: 7-8

Prerequisites: Auditioned by instructor, taken in sequence.

Credit(s): N/A

What's Next? N/A

## World Languages

### Graduation Requirements for Students under the Foundation Graduation Plan

**Required for all students: World Languages - 2 Credits - Any two levels of the same language**

**Performance acknowledgement in bilingualism and biliteracy.**

- Students must demonstrate proficiency in two or more languages through completion of a **minimum of three credits** in the same language of a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100;
- Meeting the admissions requirements of many state and national public and private universities, which include a **minimum of three years** of study of a language other than English.

All students, therefore, are strongly encouraged to study **a minimum of three years** of a language other than English in order to avail themselves of these opportunities. **Students are encouraged to begin their language study in Grade 6 (Discovering Languages and Cultures) to get the strongest possible foundation, with the option to receive high school credit for successful completion of additional World Language courses in Grade 7 and 8.**

*A student who successfully completes a dual language immersion/two-way or dual language immersion/one-way program at an elementary school may satisfy one credit of the two credits required in a language other than English.*

**To successfully complete a dual language immersion program, a student must:**

1. *Have participated in a dual language immersion program for at least five consecutive school years;*
2. *Achieve high levels of academic competence as demonstrated by performance of meets or masters grade level on the STAAR in English or Spanish, as applicable; and*
3. *Achieve proficiency in both English and a language other than English as demonstrated by scores of proficient or higher in reading and speaking domains on language proficiency achievement tests in both languages.*

**The second credit of a language other than English must be in the same language as the successfully completed dual language immersion program. TEC §28.0051 and TAC §74.12(b)(5)(F)**

<b>Discovering Languages and Cultures</b>	<b>0099 T or 0100 A/B</b>
Develops basic linguistic skills in one or more languages and cultures, including grammatical rules.	02950000
<b>This course provides instruction based upon the Discovering Languages &amp; Cultures TEKS.</b>	
<i>Instructional Material: None adopted. Contact Content Director</i>	
Prerequisites: None	Grade level: 6
<i>What's Next?</i> Spanish, French, German, Latin, Chinese, Japanese, or a language currently offered in the district	Credit(s): N/A
Offered at most middle schools.	
<b>American Sign Language</b>	<b>0125 A/B (7th) or 0127 A/B (8th)</b>
Provides both receptive and expressive signing, as well as interactive communication.	03983000
<i>Instructional Material: Signing Naturally, ISBN: 9781581212075 &amp; 9781581212181</i>	
Prerequisites: None	Grade level: 7-8
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in the course are not used in the calculation of high school GPA.	Credit(s): 1

<b>Arabic</b>	<b>0145 A/B (7th) or 0147 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS: 03100100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>None adopted / Contact Director of World Languages</i>	
<u>Prerequisites:</u> None	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in the course are not used in the calculation of high school GPA.	Grade level: 7-8 Credit(s): 1
<b>Chinese</b>	<b>0115 A/B (7th) or 0117 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS: 03490100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>1614 Zhēn Bàng! Level 1, EMC Publishing ISBN: 9781533815200</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	
<u>What's Next?</u> Chinese II	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA.	Grade level: 7-8 Credit(s): 1
<b>French</b>	<b>0101 A/B (7th) or 0103 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS: 03410100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>1603 -Bien Dit! 1A Houghton, Mifflin, Harcourt, ISBN: 9781238682604</i>	
<i>1604 - Bien Dit!1B, Houghton, Mifflin, Harcourt, ISBN: 9781329682611</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	
<u>What's Next?</u> French II	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA. Offered at most middle schools.	Grade level: 7-8 Credit(s): 1
<b>German</b>	<b>0141 A/B (7th) or 0143 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS: 03420100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>1670 - Portfolio Deutsch Level I, Klett-USA; ISBN: 9783126000024</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	
<u>What's Next?</u> German II	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA.	Grade level: 7-8 Credit(s): 1
<b>Italian</b>	<b>0135 A/B (7th) or 0137 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS - 03400100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>Chiarissimo 1- Wayside Publishing ISBN: 9781942400370</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	
<u>What's Next?</u> Italian II	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA.	Grade level: 7-8 Credit(s): 1
<b>Japanese</b>	<b>0121 A/B (7th) or 0123 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS - 03120100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>1622 – Genki, Level 1, Cheng &amp; Tsui, Co. Inc., ISBN: 9784789014403</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	
<u>What's Next?</u> Japanese II	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA.	Grade level: 7-8 Credit(s): 1

<b>Introductory Latin</b>	<b>0129 A/B</b>
Introduces the reading of Latin, reinforce by listening, speaking, and writing. Awareness of Roman culture and of components of the language.	02436000
<b>This course provides instruction based upon the Discovering Languages &amp; Cultures TEKS.</b>	
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	Grade level: 6-7
<u>What's Next?</u> Latin I	Credit(s): N/A
Offered only at WLI & YMLA	
<b>Latin</b>	<b>0131 A/B (7th) or 0133 A/B (8th)</b>
Introduces the reading of Latin, reinforce by listening, speaking, and writing. Fosters awareness of Roman culture and of components of the language.	High School PEIMS - 03433100 - if student completes all 4 semesters of study
<u>Instructional Material:</u> <i>1625 &amp; 1626 - Elevate Level 1, Cambridge University Press, ISBN: 9781316646199</i>	
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	Grade level: 7-8
<u>What's Next?</u> Latin II	Credit(s): 1
One high school credit will be awarded for successful completion of 4 semesters in middle school.	
Grades received in these courses are not used in the calculation of high school GPA.	
<b>Portuguese</b>	<b>0105 A/B (7th) or 0106 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	Middle School PEIMS: 0347300 - if student completes 2 semesters of study; High School PEIMS: 03470100 - if student completes 4 semesters of study
<u>Instructional Material:</u> <i>None adopted. Contact Director of World Languages</i>	Grade level: 7-8
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	Credit(s): 1
<u>What's Next?</u> N/A	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA.	
<b>Spanish Language Enrichment</b>	<b>0104 A/B</b>
This course focuses on language that is authentic to the Spanish experience and vital to the development of Spanish literacy. Studies in this course will develop the student's vocabulary and language skills needed to function on a biliterate and bilingual level and continue to develop cognitive skills and metacognitive processes already begun in elementary programs. This course provides instruction based upon Spanish Level II LOTE TEKS.	03443000
<u>Instructional Material:</u> FWISD Spanish Enrichment Curriculum Modules	Grade level: 6
<u>Prerequisites:</u> Grade 5 in a DLE or Spanish Immersion classroom	Credit(s): N/A
<u>What's Next?</u> SSSPAN 1AB & 2AB or Spanish 2AB (based on teacher recommendation)	
<b>Spanish</b>	<b>0111 A/B (7th) or 0113 A/B (8th)</b>
Provides everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the culture and of the importance of accuracy of expression.	High School PEIMS: 03440100 - if student completes 4 semesters of study; 1 <sup>st</sup> year is a prerequisite for 2 <sup>nd</sup> year
<u>Instructional Material:</u> <i>0760- Texas Auténtico IA, Pearson Education, Inc., ISBN: 9780328905492; 0860- Texas Auténtico IB, Pearson Education, Inc., ISBN: 9780328905508</i>	Grade level: 7-8
<u>Prerequisites:</u> Taken in sequence (each numbered course lasts two semesters).	Credit(s): 1
<u>What's Next?</u> Spanish II	
One high school credit will be awarded for successful completion of 4 semesters in middle school. Grades received in these courses are not used in the calculation of high school GPA.	
<b>Spanish Level 1 &amp; 2 (for Spanish speakers)</b>	<b>4079 A (Spanish 1AB) &amp; 4079 B (Spanish 2AB)</b>
Reinforces conversational patterns in culturally authentic situations and focuses on reading, writing, and higher-order thinking. Compacts the study of standard grammar and expands vocabulary. Includes the culture of various Hispanic countries.	03440110 & 03440220
<u>Instructional Material:</u> <i>1654 — 1<sup>st</sup> semester- Primary - FWISD Curriculum Modules/ Sendas Literarias, Pearson Education, Inc., ISBN: 9780131163553, 2<sup>nd</sup> semester- Primary - FWISD Curriculum Modules/ Sendas Literarias, Pearson Education, Inc., ISBN: 9780131163560</i>	Grade level: 7-8
<u>Prerequisites:</u> Placement exam; Ability to speak and to understand spoken Spanish, taken in sequence	Credit(s): 1 - 2
<u>What's Next?</u> Spanish for Spanish Speakers 3AB & 4AB	
High school credit(s) will be awarded for successful completion of both semesters of the course. Grades received in these courses are not used in the calculation of high school GPA.	
<b>Spanish Level 3 &amp; 4 (for Spanish Speakers)</b>	<b>4080 A (Span 3AB) &amp; 4080 B (Span 4AB)</b>
Compacts the study of Spanish for 8th grade students who have completed the compacted Spanish 1/2 (for Native Speakers) course in Grade 7. Activities focus on reading and writing and broaden student vocabulary and usage of standard Spanish grammar and structure. Promotes recognition of the role of culture and language	03440330 & 03440440

components in communications.	
<p><u>Instructional Material:</u> 1655- <i>Primary – Encuentros Maravilloso Gramática, Pearson Education, Inc., ISBN: 9780133693744 and Secondary- Abriendo Paso, Pearson Education, Inc., ISBN: 9780133238006</i></p> <p><u>Prerequisites:</u> Placement exam; Ability to speak &amp; to understand spoken Spanish, SSSPAN IAB and SSSPAN IAB</p> <p><u>What's Next?</u> AP Spanish Language and Culture IV AB or AP Spanish V</p> <p>High school credit(s) will be awarded for successful completion of both semesters of the course. Grades received in these courses are not used in the calculation of high school GPA.</p>	<p>Grade level: 8 Credit(s): 1 - 2</p>
<b>Honors Spanish Level III</b>	<b>4077 A/B</b>
<p>Emphasizes creative self-expression in the spoken language. Expands aural comprehension to improve guessing from context. Includes short passages of literature in the reading practice and some creative writing. Promotes increased knowledge of the Spanish culture and components of the language.</p> <p><u>Instructional Material:</u> 1647 — <i>Texas Auténtico, Level 3, Pearson Education, Inc., ISBN: 9780328905539</i></p> <p><u>Prerequisites:</u> Placement exam or Spanish II, novice-high proficiency in speaking, intermediate-low proficiency to listening, reading, and writing: student interest, taken in sequence</p> <p><u>What's Next?</u> AP Spanish Language and Culture IV AB</p> <p>High school credit will be awarded for successful completion of both semesters of the course. Grades received in this course are not used in the calculation of high school GPA.</p>	<p>03440300</p> <p>Grade level: 7 Credit(s): 1</p>
<b>AP Spanish Language and Culture</b>	<b>4081 A/B</b>
<p>AP Spanish Language and Culture covers material corresponding to an intermediate-level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.</p> <p><u>Instructional Material:</u> 1648 — <i>Primary – Vista Higher Learning Temas / Secondary - Triángulo Aprobado; AP Language and Culture Preparation; Pearson Education, Inc.; and 1652 - ISBN: 9781938026621</i></p> <p><u>Prerequisites:</u> Placement exam or Honors Spanish III taken in sequence</p> <p><u>What's Next?</u> AP Spanish V AB</p> <p>High school credit will be awarded for successful completion of both semesters of the course. Grades received in this course are not used in the calculation of high school GPA.</p> <p>However, beginning with the graduating class of 2025, the District shall also include in the calculation of high school GPA semester grades earned before grade 9 in Advanced Placement (AP) courses.</p> <p>Only offered at Stripling, William James &amp; WLI.</p>	<p>A3440100</p> <p>Grade level: 8 Credit(s): 1</p>
<b>Spanish II AB</b>	<b>4073 A/B</b>
<p>Expands oral and written skills into more challenging constructions, increased reading comprehension, and a variety of cultural experiences in the Spanish-speaking world. Offers practice in understanding and producing sentence-length utterances and brief, connected texts using recombination's of learned material. Promotes recognition of the role of culture and language components in communication.</p> <p><u>Instructional Material:</u> 1646 - <i>Primary – FWISD Curriculum Modules Texas Auténtico II, Pearson Education, Inc.; ISBN: 032890547X</i></p> <p><u>Prerequisites:</u> Spanish Language Enrichment; taken in sequence</p> <p><u>What's Next?</u> Honors Spanish III AB</p> <p>Only offered at Stripling MS and McLean MS</p> <p>High school credit will be awarded for successful completion of both semesters of the course. Grades received in this course are not used in the calculation of high school GPA.</p>	<p>03440200</p> <p>Grade level: 8 Credit(s): 1</p>

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## Career and Technical Education (CTE)

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### Public Notification of Non-Discrimination in Career and Technical Education Programs

The Fort Worth Independent School District offers Career and Technical Education programs in the following Career Areas:

Agriculture, Food and Natural Resources; Architecture and Construction;  
Arts, Audio Video Technology, and Communications (*Arts A/V*);  
Business, Marketing, and Finance;  
Education and Training;  
Energy (P-TECH Program only);  
Engineering;  
Health Science; Hospitality and Tourism;  
Human Services;  
Information Technology;  
Law and Public Service;  
Manufacturing;  
Transportation, Distribution and Logistics.

Admission to the above programs is based on interest, lottery selection, age appropriateness, and class space availability. It is the policy of Fort Worth ISD not to discriminate on the basis of race, color, religion, gender, national origin, age, sexual orientation, disability, gender identity and expression, military/veteran status, or any other basis prohibited by law 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.

Fort Worth ISD will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

The Fort Worth Independent School District prohibits discrimination, including harassment, against any employee on the basis of race, color, religion, gender, national origin, age, sexual orientation, disability, gender identity and expression, military/veteran status, or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of District policy. The following persons have been designated to handle inquiries regarding the non-discrimination policies:

Patricia Sutton, Director of Special Services, 215 NE 14th St., Fort Worth, TX 76164, 817.814.2458,

E-mail: [Patricia.Sutton@fwisd.org](mailto:Patricia.Sutton@fwisd.org)

Or

Cynthia Allen, Title IX Coordinator, 7060 Camp Bowie Blvd., Fort Worth, TX 76116, 817.814.1880,

Email: [Cynthia.Allen1@fwisd.org](mailto:Cynthia.Allen1@fwisd.org)

Or

Dr. Lisa Langston, Director of UIL Compliance, 1501 University Dr, Fort Worth, TX 76107, 817.815.7307,

Email: [Lisa.Langston@fwisd.org](mailto:Lisa.Langston@fwisd.org).

## Future Ready Pathway

GRADE LEVEL	CAREER & TECHNICAL EDUCATION COURSE SEQUENCE
6 <sup>TH</sup> GRADE	Computer Literacy T: 0390T <i>(See Middle School Technology Applications section)</i> AND Computer Enrichment Laboratory T: 0411A <i>(See Middle School Technology Applications section)</i>
7 <sup>TH</sup> GRADE	General Employability Skills for CTE AB: CD0677AB <i>(For high school credit)</i>
8 <sup>TH</sup> GRADE	Professional Communications Middle School T: CD09901 T <i>(For high school Speech credit)</i> AND Touch System Data Entry T: CD11301 T <i>(For high school credit)</i>

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### General Employability Skills for CTE (GEMPLS AB)

**CD0677 A**

This course is designed to guide students in obtaining the knowledge and the needed skills that are transferable among a variety of college, jobs and careers that are considered essential in any college and employment situation. Students will learn and apply basic knowledge of what is expected in the workplace as well as the pathway on how to obtain the career of their choice. Additionally, students will learn about all the Programs of Study offered at their feeder campuses and across the district. Students will choose the Program of Study of their interest and complete their 6-year progression plan. *Upon successful completion of this course, students will receive 1.0 high school credit. The grade received in the class is not used for the calculation of high school GPA. In order for the student to receive high school credit on their transcript, they must be in grades 7 or 8 and pass the course based on a high school grading scale.*

N1270153

Instructional Material: Contact Career and Technical Education Department for related materials.

Grade level: 7

Recommended Prerequisites: Computer Literacy and Computer Enrichment

Credit(s): 1.0

What's Next? Professional Communications T and Touch Systems Data Entry T  
*Offered at Middle School campuses.*

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### Professional Communications Middle School T (PROFCOMM T)

**CD09901 T**

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. *Upon successful completion of this course, students will receive 0.5 high school credit. The grade received in the class is not used for the calculation of high school GPA. In order for the student to receive high school credit on their transcript, they must be in grades 7 or 8 and pass the course based on a high school grading scale. Professional Communications can be taught by a teacher with any career and technical education certification covering grades 7-12 but must be credentialled through the CTE Dept.*

13009900

Instructional Material: Professional Communications, 2017 Edition, Goodheart-Willcox Co.

Grade level: 8

Recommended Prerequisites: General Employability Skills for CTE

Credit(s): 0.5

*Offered at Middle School campuses.*

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### Touch System Data Entry T (TSDATAE T)

**CD11301 T**

In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry skills for production of business documents. *Upon successful completion of this course, students will receive 0.5 high school credit. The grade received in the class is not used for the calculation of high school GPA. In order for the student to receive high school credit on their transcript, they must be in grades 7 or 8 and pass the course based on a high school grading scale. The teacher must hold a Business teaching certificate.*

13011300

Instructional Material: Century 21 Computer Skills and Applications, Lesson 1-90, 10th Edition Cengage Learning

Grade level: 8

Recommended Prerequisites: General Employability Skills for CTE

Credit(s): 0.5

*Offered at Middle School campuses.*

<b>PRINCIPLES OF APPLIED ENGINEERING AB (PRAPPENG AB)</b>	<b>ST36202AB</b>
Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments	13036200 Grade level: 7-8 HS Credit(s): 1
<i>Instructional Material: Project Lead the Way Gateway curriculum for Design &amp; Modeling, Automation &amp; Robotics, Science of Technology and Magic of Electrons furnished by CTE Department</i>	College Hour(s): NA
<i>Prerequisite(s): None</i>	<b>Tier III</b>
<i>Offered at: YMLA, YWLA, Leonard MS, WLI MS</i>	
<b>HONORS PRINCIPLES OF APPLIED ENGINEERING AB (PRAPPENG AB/H)</b>	<b>STH36202AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13036200 Grade level: 7-8
<i>Instructional Material: Project Lead the Way curriculum furnished by CTE Department</i>	HS Credit(s): 1
<i>Prerequisite(s): None</i>	College Hour(s): NA
<i>Offered at: YMLA, YWLA, Leonard MS, WLI MS</i>	<b>Tier II</b>
<b>INDEPENDENT STUDY IN EVOLVING/EMERGING TECHNOLOGIES (TAINDET1 AB)</b>	<b>IT81500AB</b>
Independent Study in Evolving/Emerging Technologies provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will further develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.	03581500 Grade level: 7-8 HS Credit(s): 1
<i>Instructional Material: Project Lead the Way Gateway curriculum for four courses from the following: Energy &amp; the Environment, Flight &amp; Space, Medical Detectives, Green Architecture, App Creators, and Computer Science for Innovators and Makers furnished by CTE Department</i>	College Hour(s): NA
<i>Prerequisite(s): None</i>	<b>Tier III</b>
<i>Offered at: YMLA, YWLA, Leonard MS, WLI MS</i>	
<b>HONORS INDEPENDENT STUDY IN EVOLVING/EMERGING TECHNOLOGIES (TAINDET1 AB)</b>	<b>ITH81500AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	03581500 Grade level: 7-8
<i>Instructional Material: Project Lead the Way curriculum furnished by CTE Department</i>	HS Credit(s): 1
<i>Prerequisite(s): None</i>	College Hour(s): NA
<i>Offered at: YMLA, YWLA, Leonard MS, WLI MS</i>	<b>Tier II</b>



## Technology Applications and Other Electives

<b>Computer Literacy T</b>	<b>0390T</b>
The primary focus of this course is to introduce students to cloud computing and to use computer technology to analyze and evaluate information. Students will use computational thinking to synthesize knowledge, create solutions, and evaluate the results. Students will be introduced to basic keyboarding, Microsoft Office, and coding using appropriate grade-level applications. Presents the basic structure and workings of the Chromebook. <i>Local credit only. Locally developed course.</i>	02670060
<u>Instructional Material:</u> eDynamics Learning online curriculum. <i>Contact CTE Department for related materials.</i>	Grade level: 6 Credit(s): N/A
<u>Prerequisites:</u> None	
<b>Computer Enrichment T</b>	<b>0411A</b>
Students will learn detailed structure and workings of modern technology and computer hardware, including Chromebooks. Students will use computational thinking to synthesize knowledge, create solutions, and evaluate the results. Intermediate keyboarding, coding, and Microsoft Office will be integrated throughout the course using appropriate grade-level applications. <i>Local credit only. Locally developed course.</i>	02670060
<u>Instructional Material:</u> eDynamics Learning online curriculum. <i>Contact CTE Department for related materials.</i>	Grade level: 6 Credit(s): N/A
<u>Prerequisites:</u> None	
<b>Office Assistant</b>	<b>0022 (6th) or 0023 (7th-8th)</b>
Develops skills in office procedures: greeting visitors, telephone skills, taking messages, and filing. <i>Local credit only. Locally developed course</i>	82900001
<u>Instructional Material:</u> <i>No Instructional Material</i>	Grade level: 6-8 Credit(s): N/A
<u>Prerequisites:</u> None	

## Health and Physical Education

*The Texas Education Code, (TEC) 38.101, requires the District to test the physical fitness of students enrolled in grades 3-12 in any course that satisfies the curriculum requirements for physical education on an annual basis. This includes all courses that qualify as Physical Education substitutions. Additionally, TEC 38.103 requires the District to provide the results of individual student performance on the physical fitness assessment to the Texas Education Agency. The annual fitness assessment requirement is coordinated by the FWISD Department of Health and Physical Education.*

<p><b>Moving to Wellness</b></p> <p>Mandatory year-long course. No course substitution allowed. Each student will participate in learning and practicing the key concepts of lifelong wellness; all the TEKS for 6th grade Physical Education and Health are addressed in the course. Students will, in most instances, participate in the physical part of the class every other week for a total of 225 minutes every two-week period. The physical education component of the class is designed to develop motor skills, knowledge, and behaviors for participating in a variety of lifetime physical activities and health-enhancing physical fitness. Additional physical components include sportsmanship, self-efficacy, emotional intelligence, and learning in three domains: cognitive, psychomotor, and affective. Students will participate in at least 6 components of a health-related fitness assessment at least once a year. The health education component of the class is designed to develop knowledge and skills for adopting healthy behaviors for a lifetime of enhanced wellness. Key health components include Emotional &amp; Mental Health; Nutrition &amp; Physical Activity; Tobacco, Alcohol &amp; Drug Prevention; Violence &amp; Injury Prevention; and Abstinence, Puberty &amp; Personal Health.</p> <p><u>Instructional Material:</u> 0666 – HealthSmart, ETR, Choosing the Best, and SPARK Physical Education</p> <p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> Physical Education or Competitive Athletics</p>	<p><b>0174 A/B</b></p> <p>02850000</p> <p>Grade level: 6</p> <p>Credit(s): N/A</p>
<p><b>Gr 7 or 8 Physical Education</b></p> <p>These physical education courses are designed to develop motor skills, knowledge, and behaviors for active living, physical fitness, sportsmanship, self-efficacy, and emotional intelligence. Both courses have unique and differentiated content to support the development and enhancement of physical literacy for a lifetime of physical activity participation and improved wellness.</p> <p><u>Instructional Material:</u> SPARK Physical Education</p> <p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> High School Health &amp; Physical Education</p>	<p><b>0172 A/B (7th) or 0173 A/B (8th)</b></p> <p>03823000</p> <p>Grade level: 7-8</p> <p>Credit(s): N/A</p>
<p><b>Competitive Athletics, Boys Athletics, Gr 7</b></p> <p><b>Competitive Athletics, Girls Athletics, Gr 7</b></p> <p><b>Competitive Athletics, Boys Athletics, Gr 8</b></p> <p><b>Competitive Athletics, Girls Athletics, Gr 8</b></p> <p>This course is designed to enhance student-athletic sports, skill development, appreciation for sportsmanship, knowledge of the sport, understanding and value of rules of play, and physical fitness. All three aspects of competitive athletic development are addressed: physical, mental, and social. Student should possess a desire to participate in competitive athletics, which involves outside-of-school-day participation in practices and games for in-season sport.</p> <p><u>Instructional Material:</u> No state adopted instructional material(s)/Contact content Director.</p> <p><u>Prerequisites:</u> Student is willing to make a commitment to participate in two or more sports after school. Student is also required to complete the UIL Pre-Participation Physical Evaluation-Physical Examination/Medical History forms before participation in any practice before, during, or after school. Fort Worth ISD requires the completion of seven (7) Fort Worth ISD/UIL Pre-Participation forms before participating in athletic class. Forms must be complete before the tenth day of the new school year.</p> <p>May substitute for PE credit.</p>	<p><b>0167 A/B</b></p> <p><b>0168 A/B</b></p> <p><b>0169 A/B</b></p> <p><b>0170 A/B</b></p> <p>03823000</p> <p>Grade level: 7-8</p> <p>Credit(s): N/A</p>

The following chart indicates course names and numbers of all seventh and eighth grade competitive athletics.

Seventh Grade Athletics		Eighth Grade Athletics	
Course Number	Course Name	Course Number	Course Name
FB72	Football 7AB	FB82	Football 8AB
VB72	Volleyball 7AB	VB82	Volleyball 8AB
		BSC82	Boys Soccer 8AB
		GSC82	Girls Soccer 8AB
BBK72	Boys Basketball 7AB	BBK82	Boys Basketball 8AB
GBK72	Girls Basketball 7AB	GBK82	Girls Basketball 8AB
BTK72	Boys Track 7AB	BTK82	Boys Track 8AB
GTK72	Girls Track 7AB	GTK82	Girls Track 8AB

**District-approved off-campus activities** may also substitute for required physical education if specific criteria are met, per Policy ELF (Legal and Local).

The Fort Worth ISD Physical Education Waiver Program provides an opportunity for students in grades 7-12 to receive credit for participation in an off-campus athletic/training program. FWISD is authorized by the Texas Education Agency (TEA) to substitute participation in private or commercially sponsored programs for the FWISD middle school physical education requirement (7<sup>th</sup> & 8<sup>th</sup> grades) and the state-required high school physical education graduation credit. The FWISD Health and Physical Education Department must ensure the program, agency, and instructor meet the waiver criteria in order to approve all requests through the application process.

All inquiries and applications are to be directed to the Director of the FWISD Health and Physical Education Department. Applications are due prior to Labor Day for the fall semester and by January 15 for the spring semester. A FWISD enrollment fee of \$25.00 will be assessed per semester unless a single payment of \$50.00 for both semesters is made at the beginning of the year. Fees are subject to change.

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## Junior Cadet Corps

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### Junior Cadet Corps I, II, III

**0164 A/B(6th),  
0166 A/B (7th), or  
0176 A/B (8th)**

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The Junior Cadet Corps (JCC) curriculum is created on the foundation and success of our nation's Junior Reserved Officer's Training Corps (JROTC). JCC addresses a number of national academic and state standards. This curriculum includes course work on Leadership, Civic Service, Health and Wellness, Language Arts, STEM Robotics, and Life Skills. Additionally, JCC Instructors will use the Character, Health, & Fitness, Service, and Leadership (ChiSL) curriculum to enhance student outcomes, increase community leadership, and character development. The JCC curriculum is based on the principles of performance-based, interactive learner-centered education. It promotes the development of critical thinking, capacity for life-long learning, communication skills, decision-making, good citizenship, and respectful treatment of others.

85000XXX (6th) or  
03823000 (7th-8th)

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Instructional Material: *Student Text, Revised JCC handbook dated August 2022; VNEP Global Map, selected VNEP lessons, and revised JCC Instructor Workbook/ Contact JROTC Operations and Training*

Grade level: 6-8  
Credit(s): N/A

Prerequisites: None for Grade 6, for grades 7 & 8, the student must have completed the first semester prior to enrolling in the second semester

What's Next? Next Cadet Level

Local credit only for the 6th grade class. The 7th and 8th grade courses meet the TEKS for PE for grades 7 and 8, respectively, and can substitute for PE in those grades.

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***MIDDLE SCHOOL INDEX***  
***2024 - 2025***

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<b>Course #</b>	<b>Course Title</b>	<b>MS Page #</b>	<b>Subject Area</b>
<b>Programs of Choice &amp; Preparatory Courses</b>			
0261	Avid A/B, Grade 6	MS – 3	Preparatory and SOC/POC
0269	Avid A/B, Grade 7	MS – 3	Preparatory and SOC/POC
0270	Avid A/B, Grade 8	MS – 3	Preparatory and SOC/POC
<b>English Language Arts</b>			
0041	English Language Arts, Grade 6A/B	MS – 4	English Language Arts
0084	Sheltered English Language Arts, Grade 6A/B	MS – 4	English Language Arts
0064	Sheltered English Language Arts - NP, Grade 6A/B	MS – 4	English Language Arts
00041	English Language Arts, Enhanced (Humanities), Grade 6A/B	MS – 4	English Language Arts
00084	Sheltered English Language Arts, Enhanced (Humanities), Grade 6A/B	MS – 4	English Language Arts
0015	Honors English Language Arts, Grade 6A/B	MS – 5	English Language Arts
0087	Sheltered Honors English Language Arts, Grade 6A/B	MS – 5	English Language Arts
0042	English Language Arts, Grade 7A/B	MS – 5	English Language Arts
0085	Sheltered English Language Arts, Grade 7A/B	MS – 5	English Language Arts
0065	Sheltered English Language Arts - NP, Grade 7A/B	MS – 5	English Language Arts
00042	English Language Arts, Enhanced (Humanities), Grade 7A/B	MS – 5	English Language Arts
00085	Sheltered English Language Arts, Enhanced (Humanities), Grade 7A/B	MS – 5	English Language Arts
0019	Honors English Language Arts, Grade 7A/B	MS – 5	English Language Arts
00857	Sheltered Honors English Language Arts, Grade 7A/B	MS – 5	English Language Arts
0043	English Language Arts, Grade 8A/B	MS – 5	English Language Arts
0086	Sheltered English Language Arts, Grade 8A/B	MS – 5	English Language Arts
0066	Sheltered English Language Arts - NP, Grade 8A/B	MS – 5	English Language Arts
00043	Enhanced English Language Arts (Humanities), Grade 8A/B	MS – 6	English Language Arts
00086	Sheltered Enhanced English Language Arts (Humanities), Grade 8A/B	MS – 6	English Language Arts
0025	Honors English Language Arts, Grade 8A/B	MS – 6	English Language Arts
00868	Sheltered Honors English Language Arts, Grade 8A/B	MS – 6	English Language Arts
3090	Honors English IA/B	MS – 6	English Language Arts
3089	Sheltered Honors English IA/B	MS – 6	English Language Arts
0107	Spanish Language Arts & Reading	MS – 6	English Language Arts
<b>Reading</b>			
0280	Sheltered Reading, Grade 6A/B	MS – 7	Reading
0298	Structured Literacy, Grade 6A/B	MS – 7	Reading
0299	Sheltered Structured Literacy, Grade 6A/B	MS – 7	Reading
0283	Sheltered Reading, Grade 7A/B	MS – 7	Reading
0260	Structured Literacy, Grade 7A/B	MS – 7	Reading
0262	Sheltered Structured Literacy, Grade 7A/B	MS – 7	Reading
0288	Sheltered Reading, Grade 8A/B	MS – 7	Reading
0295	Reading for Identified Dyslexic Students, Grade 6A/B	MS – 8	Reading
0296	Reading for Identified Dyslexic Students, Grade 7A/B	MS – 8	Reading
0297	Reading for Identified Dyslexic Students, Grade 8A/B	MS – 8	Reading
0251	Structured Literacy, Grade 8A/B	MS – 8	Reading
0253	Sheltered Structured Literacy, Grade 8A/B	MS – 8	Reading
<b>Emergent Bilingual (EB) Students</b>			
<b>Grade 6 Newcomer Program Students</b>			
0064	ESL-NP, Grade 6A/B	MS – 10, 11	English Learners
0058	ESL Lab-NP, Grade 6A/B	MS – 10, 11	English Learners
0192	Sheltered Math-NP, Grade 6A/B	MS – 10	English Learners
0308	Sheltered Science-NP, Grade 6A/B	MS – 10	English Learners
0328	Sheltered Social Studies-NP, Grade 6A/B	MS – 10	English Learners

<b>Course #</b>	<b>Course Title</b>	<b>MS Page #</b>	<b>Subject Area</b>
<b>Grade 6 Transition ESL Students</b>			
0084	ESL, Grade 6A/B	MS – 10, 11	English Learners
0082	ESL Lab-TR, Grade 6A/B	MS – 10, 11	English Learners
0087	Sheltered Honors English, Grade 6A/B	MS – 10	English Learners
0193	Sheltered Math, Grade 6A/B	MS – 10	English Learners
0194	Sheltered Honors Math, Grade 6A/B	MS – 10	English Learners
02056	Sheltered Honors Accelerated Math, Grade 6A/B	MS – 10	English Learners
0310	Sheltered Science, Grade 6A/B	MS – 10	English Learners
0321	Sheltered Honors Science, Grade 6A/B	MS – 10	English Learners
0330	Sheltered Social Studies, Grade 6A/B	MS – 10	English Learners
0350	Sheltered Honors Social Studies, Grade 6A/B	MS – 10	English Learners
<b>Grade 7 Newcomer Program Students</b>			
0572	ELLA, Grade 7A/B	MS – 10, 11	English Learners
0060	ESL Lab-NP, Grade 7A/B	MS – 10, 11	English Learners
0195	Sheltered Math-NP, Grade 7A/B	MS – 10	English Learners
0312	Sheltered Science-NP, Grade 7A/B	MS – 10	English Learners
0332	Sheltered Social Studies-NP, Grade 7A/B	MS – 10	English Learners
<b>Grade 7 Transition ESL Students</b>			
0085	ESL, Grade 7A/B	MS – 10, 11	English Learners
0083	ESL Lab-TR, Grade 7A/B	MS – 10, 11	English Learners
00857	Sheltered Honors English, Grade 7A/B	MS – 10	English Learners
0197	Sheltered Math, Grade 7A/B	MS – 10	English Learners
01977	Sheltered Honors Math, Grade 7A/B	MS – 10	English Learners
0314	Sheltered Science, Grade 7A/B	MS – 10	English Learners
03147	Sheltered Honors Science, Grade 7A/B	MS – 10	English Learners
0333	Sheltered Social Studies, Grade 7A/B	MS – 10	English Learners
03337	Sheltered Honors Social Studies, Grade 7A/B	MS – 10	English Learners
<b>Grade 8 Newcomer Program Students</b>			
0573	ELLA, Grade 8A/B	MS – 10, 11	English Learners
0062	ESL Lab-NP, Grade 8A/B	MS – 10, 11	English Learners
0198	Sheltered Math-NP, Grade 8A/B	MS – 10	English Learners
0320	Sheltered Science-NP, Grade 8A/B	MS – 10	English Learners
0335	Sheltered Social Studies-NP, Grade 8A/B	MS – 10	English Learners
<b>Grade 8 Transition ESL Students</b>			
0086	ESL, Grade 8A/B	MS – 10, 11	English Learners
0088	ESL Lab-TR, Grade 8A/B	MS – 10, 11	English Learners
00868	Sheltered Honors English, Grade 8A/B	MS – 10	English Learners
3089	Sheltered Honors English I (HS#)	MS – 10	English Learners
0199	Sheltered Math, Grade 8A/B	MS – 10	English Learners
01998	Sheltered Pre-Algebra, Grade 8A/B	MS – 10	English Learners
7047	Sheltered Honors Algebra (HS#)	MS – 10	English Learners
0322	Sheltered Science, Grade 8A/B	MS – 10	English Learners
03228	Sheltered Honors Science, Grade 8A/B	MS – 10	English Learners
7576	Sheltered Honors Biology (HS#)	MS – 10	English Learners
0338	Sheltered Social Studies, Grade 8A/B	MS – 10	English Learners
03388	Sheltered Honors Social Studies, Grade 8A/B	MS – 10	English Learners
<b>Special Education</b>			
0051	Basic English Language Arts, Grade 6A/B	MS – 14	Special Education
0052	Basic English Language Arts, Grade 7A/B	MS – 14	Special Education
0053	Basic English Language Arts, Grade 8A/B	MS – 14	Special Education
0214	Basic Mathematics, Grade 6A/B	MS – 14	Special Education
0216	Basic Mathematics, Grade 7A/B	MS – 14	Special Education
0218	Basic Mathematics, Grade 8A/B	MS – 14	Special Education
0316	Basic Science, Grade 6A/B	MS – 14	Special Education
0317	Basic Science, Grade 7A/B	MS – 15	Special Education
0318	Basic Science, Grade 8A/B	MS – 15	Special Education

<b>Course #</b>	<b>Course Title</b>	<b>MS Page #</b>	<b>Subject Area</b>
<b>Special Education - Continued</b>			
0346	Basic Social Studies, Grade 6A/B	MS – 15	Special Education
0347	Basic Social Studies, Grade 7A/B	MS – 15	Special Education
0348	Basic Social Studies, Grade 8A/B	MS – 15	Special Education
0029	Communications IA/B	MS – 15	Special Education
0031	Communications IIA/B	MS – 15	Special Education
0033	Communications IIIA/B	MS – 15	Special Education
0213	Applied Math IA/B	MS – 16	Special Education
0215	Applied Math IIA/B	MS – 16	Special Education
0217	Applied Math IIIA/B	MS – 16	Special Education
0276	Reading Strategies and Skills IA/B	MS – 16	Special Education
0277	Reading Strategies and Skills IIA/B	MS – 16	Special Education
0278	Reading Strategies and Skills IIIA/B	MS – 16	Special Education
0307	Applied Science IA/B	MS – 16	Special Education
0309	Applied Science IIA/B	MS – 16	Special Education
0311	Applied Science IIIA/B	MS – 16	Special Education
0339	Community Citizenship IA/B	MS – 16	Special Education
0340	Community Citizenship IIA/B	MS – 16	Special Education
0343	Community Citizenship IIIA/B	MS – 16	Special Education
0155	Person Health/Hygiene IA/B	MS – 16	Special Education
0157	Person Health/Hygiene IIA/B	MS – 16	Special Education
0159	Person Health/Hygiene IIIA/B	MS – 16	Special Education
0785	Community Skills IA/B	MS – 16	Special Education
0787	Community Skills IIA/B	MS – 16	Special Education
0789	Community Skills IIIA/B	MS – 16	Special Education
0779	Activities of Daily Living IA/B	MS – 17	Special Education
0781	Activities of Daily Living IIA/B	MS – 17	Special Education
0783	Activities of Daily Living IIIA/B	MS – 17	Special Education
0773	Recreation/Leisure IA/B	MS – 17	Special Education
0775	Recreation/Leisure IIA/B	MS – 17	Special Education
0777	Recreation/Leisure IIIA/B	MS – 17	Special Education
0291	Basic Reading VIAB	MS – 17	Special Education
0292	Basic Reading VIIAB	MS – 17	Special Education
0293	Basic Reading VIIIAB	MS – 17	Special Education
<b>Mathematics</b>			
0200	Mathematics, Grade 6A/B	MS – 18	Mathematics
0192	Sheltered Mathematics-NP, Grade 6A/B	MS – 18	Mathematics
0193	Sheltered Mathematics, Grade 6A/B	MS – 18	Mathematics
0204	Honors Mathematics, Grade 6A/B	MS – 18	Mathematics
0194	Sheltered Honors Mathematics, Grade 6A/B	MS – 18	Mathematics
0205	Honors Accelerated Mathematics, Grade 6A/B	MS – 19	Mathematics
02056	Sheltered Honors Accelerated Mathematics, Grade 6A/B	MS – 19	Mathematics
0202	Mathematics, Grade 7A/B	MS – 19	Mathematics
0195	Sheltered Mathematics-NP, Grade 7A/B	MS – 19	Mathematics
0197	Sheltered Mathematics, Grade 7A/B	MS – 19	Mathematics
0207	Honors Mathematics, Grade 7A/B	MS – 19	Mathematics
01977	Sheltered Honors Mathematics, Grade 7A/B	MS – 19	Mathematics
0203	Mathematics, Grade 8A/B	MS – 19	Mathematics
0198	Sheltered Mathematics-NP, Grade 8A/B	MS – 19	Mathematics
0199	Sheltered Mathematics, Grade 8A/B	MS – 19	Mathematics



<b>Course #</b>	<b>Course Title</b>	<b>MS Page #</b>	<b>Subject Area</b>
<b>Mathematics - Continued</b>			
0219	Pre-Algebra, Grade 8A/B	MS – 19	Mathematics
01998	Sheltered Pre-Algebra, Grade 8A/B	MS – 19	Mathematics
7055	Honors Algebra IA/B	MS – 20	Mathematics
7047	Sheltered Honors Algebra IA/B	MS – 20	Mathematics
7073	Honors Geometry A/B	MS – 20	Mathematics
7074	Sheltered Honors Geometry A/B	MS – 20	Mathematics
0201	Enhanced Mathematics, Grade 6A/B	MS – 20	Mathematics
0206	Enhanced Mathematics, Grade 7A/B	MS – 20	Mathematics
0222	Mathematics Laboratory: Problem Solving Approach A/B	MS – 20	Mathematics
7421	Texas Pre-Freshman Engineering Program IA/B	MS – 20	Mathematics
7423	Texas Pre-Freshman Engineering Program IIA/B	MS – 20	Mathematics
<b>Science</b>			
0300	Science, Grade 6 A/B	MS – 21	Science
0308	Sheltered Science-NP, Grade 6A/B	MS – 21	Science
0310	Sheltered Science, Grade 6A/B	MS – 21	Science
0313	Accelerated Science, Grade 6A/B	MS – 21	Science
0321	Sheltered Accelerated Science, Grade 6A/B	MS – 21	Science
0304	Science, Grade 7A/B	MS – 22	Science
0312	Sheltered Science-NP, Grade 7A/B	MS – 22	Science
0314	Sheltered Science, Grade 7A/B	MS – 22	Science
0303	Science, Accelerated, Grade 7A/B	MS – 22	Science
03147	Sheltered Science, Accelerated, Grade 7A/B	MS – 22	Science
0305	Science, Grade 8A/B	MS – 22	Science
0320	Sheltered Science-NP, Grade 8A/B	MS – 22	Science
0322	Sheltered Science, Grade 8A/B	MS – 22	Science
7574	Honors Biology AB	MS – 22	Science
7576	Sheltered Honors Biology AB	MS – 22	Science
7532	Integrated Physics/Chemistry A/B	MS – 22	Science
7528	Sheltered Integrated Physics/Chemistry A/B	MS – 22	Science
0357	Botany, Grade 6 T	MS – 23	Science
0356	Botany, Grade 7/8 T	MS – 23	Science
7421	Texas Pre-Freshman Engineering Program IA/B	MS – 23	Science
7423	Texas Pre-Freshman Engineering Program IIA/B	MS – 23	Science
<b>Social Studies</b>			
0331	Social Studies, Grade 6A/B	MS – 24	Social Studies
0328	Sheltered Social Studies-NP, Grade 6A/B	MS – 24	Social Studies
0330	Sheltered Social Studies, Grade 6A/B	MS – 24	Social Studies
0325	Honors Social Studies, Grade 6A/B	MS – 24	Social Studies
0350	Sheltered Honors Social Studies, Grade 6A/B	MS – 24	Social Studies
0336	Social Studies, Grade 7A/B	MS – 25	Social Studies
0332	Sheltered Social Studies-NP Grade 7A/B	MS – 25	Social Studies
0333	Sheltered Social Studies, Grade 7A/B	MS – 25	Social Studies
0327	Honors Social Studies, Grade 7A/B	MS – 25	Social Studies
03337	Sheltered Honors Social Studies, Grade 7A/B	MS – 25	Social Studies
0337	Social Studies, Grade 8A/B	MS – 25	Social Studies
0335	Sheltered Social Studies-NP, Grade 8A/B	MS – 25	Social Studies
0338	Sheltered Social Studies, Grade 8A/B	MS – 25	Social Studies
0329	Honors Social Studies, Grade 8A/B	MS – 25	Social Studies
03388	Sheltered Honors Social Studies, Grade 8A/B	MS – 25	Social Studies
0345	How to Study, Grade 6 T	MS – 25	Social Studies
0342	How to Study, Grade 7/8 T	MS – 25	Social Studies
8002	Special Topics in Social Studies: Geography Themes & Perspectives A/B	MS – 25	Social Studies

<b>Course #</b>	<b>Course Title</b>	<b>MS Page #</b>	<b>Subject Area</b>
<b>Fine Arts - Art</b>			
0001	Art, Middle School 1A/B	MS – 26	Fine Arts - Art
0002	Art, Middle School 2A/B	MS – 26	Fine Arts - Art
0003	Art, Middle School 3A/B	MS – 26	Fine Arts - Art
0007	Photographic Design, Grade 7A/B	MS – 26	Fine Arts - Art
0008	Photographic Design, Grade 8 A/B	MS – 26	Fine Arts - Art
1010	Art, Level I, HS Art IA/B	MS – 26	Fine Arts - Art
<b>Fine Arts - Dance &amp; Theatre</b>			
01600	Middle School Dance 1A/B	MS – 27	Fine Arts - Dance
0160	Middle School Dance 2A/B	MS – 27	Fine Arts - Dance
0163	Middle School Dance 3A/B	MS – 27	Fine Arts - Dance
0077	Middle School Theatre 1A/B	MS – 27	Fine Arts - Theatre
0079	Middle School Theatre 2A/B	MS – 27	Fine Arts - Theatre
0081	Middle School Theatre 3A/B	MS – 27	Fine Arts - Theatre
<b>Fine Arts - Choral Music</b>			
0258	Choral Level 1 - Treble	MS – 29	Fine Arts - Choral Music
0259	Choral Level 1 – Tenor/Bass	MS – 29	Fine Arts - Choral Music
02591	Choral Level 1 – Show Choir	MS – 29	Fine Arts - Choral Music
0264	Choral Level 2 - Treble	MS – 29	Fine Arts - Choral Music
0238	Choral Level 2 - Tenor/Bass	MS – 29	Fine Arts - Choral Music
02431	Choral Level 2 – Show Choir	MS – 29	Fine Arts - Choral Music
0266	Choral Level 3 - Treble	MS – 29	Fine Arts - Choral Music
0240	Choral Level 3 - Tenor/Bass	MS – 29	Fine Arts - Choral Music
02401	Choral Level 3 – Show Choir	MS – 29	Fine Arts - Choral Music
<b>Fine Arts - Instrumental Music</b>			
0223	Middle School Band Level 1	MS – 28	Fine Arts - Instrumental Music
0226	Middle School Band Level 2	MS – 28	Fine Arts - Instrumental Music
0228	Middle School Band Level 3	MS – 28	Fine Arts - Instrumental Music
0182	Middle School Instrumental Ensemble	MS – 28	Fine Arts - Instrumental Music
0184	Middle School Instrumental Ensemble	MS – 28	Fine Arts - Instrumental Music
0248	Middle School Instrumental Ensemble	MS – 28	Fine Arts - Instrumental Music
0233	Middle School Mariachi Ensemble Level 1	MS – 28	Fine Arts - Instrumental Music
0235	Middle School Mariachi Ensemble Level 2	MS – 28	Fine Arts - Instrumental Music
0237	Middle School Mariachi Ensemble Level 3	MS – 28	Fine Arts - Instrumental Music
0267	Middle School Jazz Ensemble	MS – 28	Fine Arts - Instrumental Music
0268	Middle School Jazz Ensemble	MS – 28	Fine Arts - Instrumental Music
0252	Middle School Orchestra Level 1	MS – 28, 29	Fine Arts - Instrumental Music
0189	Middle School Orchestra Level 2	MS – 28, 29	Fine Arts - Instrumental Music
0244	Middle School Orchestra Level 3	MS – 28, 29	Fine Arts - Instrumental Music
<b>World Languages</b>			
0099	Discovering Languages and Cultures T	MS – 30	World Languages
0100	Discovering Languages and Cultures A/B	MS – 30	World Languages
0125	American Sign Language, Grade 7A/B	MS – 30	World Languages
0127	American Sign Language, Grade 8A/B	MS – 30	World Languages
0145	Arabic, Grade 7A/B	MS – 31	World Languages
0147	Arabic, Grade 8A/B	MS – 31	World Languages
0115	Chinese, Grade 7A/B	MS – 31	World Languages
0117	Chinese, Grade 8A/B	MS – 31	World Languages
0101	French, Grade 7A/B	MS – 31	World Languages
0103	French, Grade 8A/B	MS – 31	World Languages
0141	German, Grade 7A/B	MS – 31	World Languages
0143	German, Grade 8A/B	MS – 31	World Languages
0135	Italian, Grade 7A/B	MS – 31	World Languages
0137	Italian, Grade 8A/B	MS – 31	World Languages
0121	Japanese, Grade 7A/B	MS – 31	World Languages
0123	Japanese, Grade 8A/B	MS – 31	World Languages
0129	Introductory Latin A/B	MS – 32	World Languages
0131	Latin, Grade 7A/B	MS – 32	World Languages
0133	Latin, Grade 8A/B	MS – 32	World Languages

<b>Course #</b>	<b>Course Title</b>	<b>MS Page #</b>	<b>Subject Area</b>
<b>World Languages - Continued</b>			
0105	Portuguese, Grade 7A/B	MS – 32	World Languages
0106	Portuguese, Grade 8A/B	MS – 32	World Languages
0104	Spanish Language Enrichment A/B	MS – 32	World Languages
0111	Languages Other Than English, Level 1, Spanish, Grade 7A/B	MS – 32	World Languages
0113	Languages Other Than English, Level 2, Spanish, Grade 8A/B	MS – 32	World Languages
4079	Spanish (for Spanish speakers) Level 1 4079A & Level 2 4079B	MS – 32	World Languages
4080	Spanish (for Spanish speakers) Level 3 4080A & Level 4 4080B	MS – 32	World Languages
4077	Honors Spanish Level IIIA/B	MS – 33	World Languages
4081	AP Spanish Language & Culture IVA/B	MS – 33	World Languages
4073	Spanish II AB	MS – 33	World Languages
<b>Career and Technical Education</b>			
CD0677	General Employability Skills for CTE	MS – 35	Career & Technical Education
CD09901	Professional Communications Middle School T	MS - 35	Career & Technical Education
CD11301	Touch System Data Entry T	MS – 35	Career & Technical Education
ST36202	Principles of Applied Engineering A/B	MS – 36	Career & Technical Education
STH36202	Honors Principles of Applied Engineering A/B	MS – 36	Career & Technical Education
IT81500	Independent Study in Evolving/Emerging Technologies A/B	MS – 36	Career & Technical Education
ITH81500	Honors Independent Study in Evolving/Emerging Technologies A/B	MS – 36	Career & Technical Education
<b>Technology Applications</b>			
0390	Computer Literacy T	MS – 37	Technology Applications
0411	Computer Enrichment Laboratory A	MS – 37	Technology Applications
<b>Other Electives</b>			
0022	Office Assistant, Grade 6	MS – 37	Local Credit Only
0023	Office Assistant, Grade 7/8	MS – 37	Local Credit Only
<b>Health and Physical Education</b>			
0174	Moving to Wellness, Grade 6A/B	MS – 38	Health & PE
0172	Physical Education, Grade 7A/B	MS – 38	Health & PE
0173	Physical Education, Grade 8A/B	MS – 38	Health & PE
0167	Competitive Athletics, Boys Athletics, Grade 7A/B	MS – 38	Health & PE
0168	Competitive Athletics, Girls Athletics, Grade 7A/B	MS – 38	Health & PE
0169	Competitive Athletics, Boys Athletics, Grade 8A/B	MS – 38	Health & PE
0170	Competitive Athletics, Girls Athletics, Grade 8A/B	MS – 38	Health & PE
<b>Junior Cadet CORPS</b>			
0164	Junior Cadet Corps I, Grade 6A/B	MS – 40	JCC
0166	Junior Cadet Corps I, Grade 7A/B	MS – 40	JCC
0176	Junior Cadet Corps II, Grade 8A/B	MS – 40	JCC

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***HIGH SCHOOL  
APPROVED COURSES  
GRADES 9-12***

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## Academic Preparatory Programs

<p><b>AVID I (ADVANCEMENT VIA INDIVIDUAL DETERMINATION I AB) (AVID I AB)</b></p> <p>The 9<sup>th</sup> grade AVID Elective course will serve as a review of the AVID philosophy and strategies. Students will work on academic and personal goals, communication, and adjusting to the high school setting. Students will increase awareness of their personal contributions to their learning, as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative settings, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Students will prepare for and participate in college entrance and placement exams, while refining study skills and test-taking, note-taking, and research techniques. They will take an active role in field trips and guest speaker preparations and presentations. Their college research will include financial topics and building their knowledge of colleges and careers of interest.</p> <p><u>Instructional Material:</u> <i>Materials provided through contract with AVID Center</i></p> <p><u>Prerequisites:</u> Middle School AVID, or Application to and Acceptance into 9th Grade AVID program</p> <p><i>AVID is a state-approved academic elective credit course.</i></p> <p><u>What's next?</u> AVID II AB (Advancement Via Individual Determination)</p>	<p><b>0660 AB</b></p> <p>N1290001</p> <p>Grade level: 9</p> <p>HS Credit(s): 1.0</p> <p>College Hour(s): N/A</p> <p><b>Tier III</b></p>
<p><b>AVID II (ADVANCEMENT VIA INDIVIDUAL DETERMINATION II AB) (AVID II AB)</b></p> <p>During the 10<sup>th</sup> grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase the rigorous course load and school/community involvement, they will refine their time management and study skills accordingly. Students will expand their writing portfolio to include: analyzing prompts, supporting arguments and claims, character analysis and detailed reflections. Students will also analyze various documents, in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their college and careers of interest, based on personal interests and goals.</p> <p><u>Instructional Material:</u> <i>Materials provided through contract with AVID Center</i></p> <p><u>Prerequisites:</u> AVID I, or Application to and Acceptance into 10th Grade AVID</p> <p><i>AVID is a state-approved academic elective credit course.</i></p> <p><u>What's next?</u> AVID III AB (Advancement Via Individual Determination)</p>	<p><b>0661 AB</b></p> <p>N1290002</p> <p>Grade level: 10</p> <p>HS Credit(s): 1.0</p> <p>College Hour(s): N/A</p> <p><b>Tier III</b></p>
<p><b>AVID III (ADVANCEMENT VIA INDIVIDUAL DETERMINATION III AB) (AVID III AB)</b></p> <p>The 11<sup>th</sup> grade AVID Elective course is the first part in a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. This course is organized around the theme of "Leadership as a Catalyst for Change in Society." Students study, in depth, exceptional leaders in contemporary society and examine the effect that these individuals have had on culture, politics, education, history, science and the arts. The course requires that students read essays, speeches, articles and letters by these leaders, as well as at least one full-length work by the leader or about the leader. Also, each student is required to conduct a research project that is presented in the senior year. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies and tasks that should be undertaken during the junior year to support students as they apply to four-year universities and confirm their postsecondary plans.</p> <p><u>Instructional Material:</u> <i>Materials provided through contract with AVID Center</i></p> <p><u>Prerequisites:</u> Successful completion of AVID II; No students are admitted "new" to AVID junior year without AVID District Director approval</p> <p><i>AVID is a state-approved academic elective credit course.</i></p> <p><u>What's next?</u> AVID IV AB (Advancement Via Individual Determination)</p>	<p><b>0671 AB</b></p> <p>N1290030</p> <p>Grade level: 11</p> <p>HS Credit(s): 1.0</p> <p>College Hour(s): N/A</p> <p><b>Tier III</b></p>
<p><b>AVID IV (ADVANCEMENT VIA INDIVIDUAL DETERMINATION IV AB) (AVID IV AB)</b></p> <p>The AVID Elective 12<sup>th</sup> grade course is the second part in a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. This course continues around the theme of "Leadership as a Catalyst for Change in Society." Students will complete a final research essay project from research conducted in their junior year in AVID. In addition to the academic focus of the AVID senior seminar, there are college-bound activities, methodologies and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors are required to develop and present a portfolio representing their years of work in the AVID program, as well as complete the requirements for the seminar course. The AVID Senior Seminar (AVID IV) is the culmination of a student's years in the AVID program and involves substantial critical reading and writing, and preparation for external exams. Students receive assistance in completing their college and financial aid/scholarship applications. In addition, students will make oral presentations to the class on topics related to college entrance, contemporary issues, and social concerns.</p>	<p><b>0664 AB</b></p> <p>N1290033</p> <p>Grade level: 12</p> <p>HS Credit(s): 1.0</p> <p>College Hour(s): N/A</p> <p><b>Tier III</b></p>

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Instructional Material: *Materials provided through contract with AVID Center*

Prerequisites: Successful completion of AVID III; no students are admitted "new" to AVID senior year without AVID District Director approval

*AVID is a state-approved academic elective credit course.*

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**DUAL CREDIT COLLEGE TRANSITION AB (CLGTRN AB DC)**

**0668 AB**

**TCC Course: College Learning Framework (EDUC 1300)**

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A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning; and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned.

N1290050  
Grade level: 9-12  
HS Credit(s): 1.0  
College Hour(s): 3 hours  
**Tier I**

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Instructional Material: *Contact Content Director*

Prerequisites: None

*This is a regular college-level Education course in which dual credit will be awarded for College Education and high school College Transition. The student will receive 3 hours college credit and 1 high school credit when completed successfully.*

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**PREPARING STUDENTS FOR ADVANCED TESTING I T (PSAT I T)**

**8221 T**

Provides students an opportunity to develop test-taking strategies for use on *PSAT*, *SAT*, and other college entrance examinations. Skills addressed help improve performance on standardized tests. Includes vocabulary building, reading improvement, mathematics, and reasoning skills.

Local Credit Only  
Grade level: 9-12  
HS Credit(s): 0

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Instructional Material: *Contact Content Director*

Prerequisites: Student interest

*Local credit only. No credit is earned toward graduation for this course.*

College Hour(s): NA  
**Tier III**

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***ENGLISH LANGUAGE ARTS,  
JOURNALISM,  
READING, SPEECH &  
EMERGENT  
BILINGUAL***

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**High School English Course Credit Chart.....Page 1**  
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# ENGLISH LANGUAGE ARTS GRADUATION REQUIREMENTS

ALL STUDENTS ARE REQUIRED to take English I (EOC) & English II (EOC) or EngSOL I & II

## FOUNDATION PLANS

### All Foundation Plans (22 & 26 credits) Require 4 English credits

The 3rd English credit may be selected from the following:

- English III
- AP Language & Composition
- DC English Composition
- AP Literature & Composition
- OnRamps English Rhetoric & Writing - 3044AB  
(may only take once for Eng III OR Eng IV - 1 credit)

#### Possible Endorsement Opportunities:

- Multidisciplinary
- Business & Industry
- Arts & Humanities

The 4th English credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements.

The 4th English credit may be selected from the following:

- English IV
- Humanities
- AP Language & Composition
- AP Literature & Composition
- OnRamps English Rhetoric & Writing - 3045AB  
(may only take once for Eng III OR Eng IV - 1 credit)
- Business English
- College Preparatory English
- DC English Composition
- DC Research & Technical Writing
- DC British Literature
- DC American Literature



# English Language Arts

## English Language Arts Recommended Course Sequence and Testing Guide

	Traditional		Honors		Advanced Placement (AP) / Dual Credit (DC)	
<b>6th</b>	Gr 6 ELAR: 0041	STAAR Gr 6	Honors Gr 6 ELAR: 0015	Enhanced Gr 6 ELAR: 00041	STAAR Gr 6	Honors Gr 6 ELAR: 0015  STAAR Gr 6
<b>7th</b>	Gr 7 ELAR: 0042	STAAR Gr 7	Honors Gr 7 ELAR: 0019	Enhanced Gr 7 ELAR: 00042	STAAR Gr 7	Honors Gr 7 ELAR: 0019  STAAR Gr 7
<b>8th</b>	Gr 8 ELAR: 0043	STAAR Gr 8	Honors Gr 8 ELAR: 0025	Enhanced Gr 8 ELAR: 00043	STAAR Gr 8	Honors English I: 3090  Eng I EOC
<b>9th</b>	English I: 3011	Eng I EOC	Honors English I: 3090		Eng I EOC	Honors English II: 3092  Eng II EOC PSAT
<b>10th</b>	English II: 3013	Eng II EOC	Honors English II: 3092		Eng II EOC PSAT	Honors English III: 3094 Advanced ELAR  Exams vary by course
<b>11th</b>	English III: 3015	PSAT SAT ACT	Honors English III: 3094 AP/DC ELAR Elective or Advanced ELAR		Exams vary by course	OnRamps English <small>(may only take once for Eng III or Eng IV – 1 credit)</small> AP/DC ELAR Elective or Advanced ELAR  Exams vary by course
<b>12th</b>	English IV: 3017 College Preparatory English: 3131	PSAT SAT ACT TSI	OnRamps English <small>(may only take once for Eng III or Eng IV – 1 credit)</small> AP/DC ELAR Elective or Advanced ELAR		Exams vary by course	AP/DC ELAR Elective OnRamps English <small>(may only take once for Eng III or Eng IV – 1 credit)</small>  Exams vary by course

<b>ENGLISH I AB</b>	<b>3011 AB</b>
<b>SHELTERED ENGLISH I AB</b>	<b>0546 AB</b>
<b>ENGLISH I AB</b>	<b>30115 AB</b>
<b>EngSOL I AB</b>	<b>0541 AB</b>
Provides students opportunities to continue increasing and refining their written and oral communication skills. Students read and learn from world literature that represents a variety of cultures. Students address reading, writing, research, listening, speaking, and oral and written conventions that are reflected in the TEKS.	03220100
<u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 9 TX Std, ISBN 9781265535973; ThinkCERCA Supplemental Resource</i>	Grade level: 9
<u>Prerequisites:</u> None	Credit(s): 1
<u>What's Next?</u> English II AB; Honors English II AB	College Hour(s): NA
<i>Students will take the English I EOC.</i>	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>HONORS ENGLISH I AB</b>	<b>3090 AB</b>
<b>SHELTERED HONORS ENGLISH I AB</b>	<b>3089 AB</b>
As required by the state, this course goes beyond the TEKS in depth and complexity vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills. This course includes enrichment opportunities such as research, projects, and independent study.	03220100
<u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 9 TX Std, ISBN 9781265535973</i>	Grade level: 9
<i>Additional resources available through required attendance of at least 1 AP or NMSI summer institute.</i>	Credit(s): 1
<u>Prerequisites:</u> FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course's availability to a student with such a request.	College Hour(s): NA
<u>What's Next?</u> Honors English II AB	<b>Tier II</b>
<i>Students will take English I EOC.</i>	

Course taught by locally certified gifted teacher who has attended at least one AP or NMSI Summer Institute for the course.

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

<b>ENGLISH II AB</b>	<b>3013 AB</b>
<b>SHELTERED ENGLISH II AB</b>	<b>0548 AB</b>
<b>ENGLISH II AB</b>	<b>30135 AB</b>
<b>EngSOL II AB</b>	<b>0543 AB</b>

Provides students opportunities to continue increasing and refining their communication skills. Students read and write literary and informational genres. Students read and learn from world literature that represents a variety of cultures while also learning literary forms and terms from the selections read. Students address the writing, reading, research, listening, speaking, oral, and written conventions that are reflected in the TEKS.

03220200

Instructional Material: McGraw Hill Study Sync, Grade 10 TX Std, ISBN 9781265535973; ThinkCERCA Supplemental Resource

Grade level: 9 – 10

Prerequisites: English I

Credit(s): 1

What's Next? English III AB; Honors English III AB; Humanities I AB

College Hour(s): NA

Students will take English II EOC.

**Tier III**

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

<b>HONORS ENGLISH II AB</b>	<b>3092 AB</b>
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As required by the state, this course goes beyond the TEKS in depth and complexity vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills. This course includes enrichment opportunities such as research, projects, and independent study.

03220200

Instructional Material: McGraw Hill Study Sync, Grade 10 TX Std, ISBN 9781265535973

Grade level: 9 – 10

Additional resources available for teachers through required attendance at least 1 AP or NMSI summer institute.

Credit(s): 1

Prerequisites: English I or Honors English I

College Hour(s): NA

FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course's availability to a student with such a request.

**Tier II**

What's Next? Honors English III AB, AP English Language and Composition, Dual Credit English, AP Literature & Composition

Students will take English II EOC.

Course taught by locally certified gifted teacher who has attended at least one AP or NMSI Summer Institute for the course.

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

<b>ENGLISH III AB</b>	<b>3015 AB</b>
<b>SHELTERED ENGLISH III AB (EL students in Newcomer Program)</b>	<b>0544 AB</b>
<b>SHELTERED ENGLISH III AB</b>	<b>0549 AB</b>
<b>ENGLISH III AB</b>	<b>30155 AB</b>

Provides opportunities for students to continue increasing and refining their communication skills. Students read and write literary and informational genres. Students read extensively in multiple genres from American and World Literature while learning literary forms and terms from the selections read. Students address the writing, reading, speaking, listening, viewing, and representing skills that are reflected in the TEKS.

03220300

Instructional Material: McGraw Hill Study Sync, Grade 11 TX Std, ISBN 9781265535973

Grade level: 10 – 11

Prerequisites: English II

Credit(s): 1

What's Next? English IV AB; Dual Credit English Composition; Research/Technical Writing

College Hour(s): NA

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

**Tier III**

<b>OnRamps ENGLISH RHETORIC &amp; WRITING AB</b>	<b>3044 AB</b>
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This Rhetoric and Writing course provides opportunities for students to learn to analyze the various positions held in any public debate and learn to advocate their own positions effectively. Students explore the ethics of argumentation and what it means to "fairly" represent someone with whom they disagree. Students are then ready to analyze and compose arguments about American identity and identity formation, both personal and cultural.

03220300

The goal is to foster students' abilities to analyze arguments presented by others and to write sound and effective arguments of their own — abilities that contribute meaningfully to their academic, professional, personal, and civic lives. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher. **THIS COURSE MAY COUNT FOR ENGLISH III CREDIT.**

Grade level: 10 - 11

Credit(s): 1.0

College Hour(s): Up to 6

**Tier I**

Instructional Material: Selected and provided by the University of Texas at Austin

Prerequisites: English I, English II, and teacher recommendation – **may only take OnRamps English Rhetoric & Writing once for 1 credit – Either an English III OR an English IV credit.**

What's Next? Dual Credit English Composition; Dual Credit Research/Technical Writing; AP English Language and Composition; AP English Literature and Composition

<b>OnRamps ENGLISH RHETORIC &amp; WRITING AB</b>	<b>3045 AB</b>
<p>This Rhetoric and Writing course provides opportunities for students to learn to analyze the various positions held in any public debate and learn to advocate their own positions effectively. Students explore the ethics of argumentation and what it means to “fairly” represent someone with whom they disagree. Students are then ready to analyze and compose arguments about American identity and identity formation, both personal and cultural. The goal is to foster students’ abilities to analyze arguments presented by others and to write sound and effective arguments of their own — abilities that contribute meaningfully to their academic, professional, personal, and civic lives. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher. <b>THIS COURSE MAY COUNT FOR ENGLISH IV CREDIT.</b></p>	03220400
<p><u>Instructional Material:</u> Selected and provided by the University of Texas at Austin  <u>Prerequisites:</u> English III or AP English Language and Composition or AP English Literature and Composition – <b>may only take OnRamps English Rhetoric &amp; Writing once for 1 credit – Either an English III OR an English IV credit.</b>  <u>What’s Next?</u> Any advanced English course</p>	<p>Grade level: 11 - 12  Credit(s): 1.0  College Hour(s): Up to 6  <b>Tier I</b></p>
<b>HONORS ENGLISH III AB</b>	<b>3094 AB</b>
<p>As required by the state, this course goes beyond the TEKS in depth and complexity vertically aligned to the Advanced Placement courses of English Language and Literature and SAT skills. This course includes enrichment opportunities such as research, projects, and independent study.</p>	03220300
<p><u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 11 TX Std, ISBN 9781265535973</i>  <u>Additional resources available through required attendance at least 1 AP or NMSI summer institute.</u>  <u>Prerequisites:</u> English II or Honors English II  FWISD is an inclusive district in that any stakeholder (teacher, student, parent, etc.) can request access to our most advanced courses and have at least a provisional placement issued. There are no prerequisite requirements that would limit this course’s availability to a student with such a request.  <u>What’s Next?</u> Dual Credit English Composition; Dual Credit Research/Technical Writing; AP English Language Composition; AP English Literature Composition  Course taught by locally certified gifted teacher who has attended at least one AP or NMSI Summer Institute for the course. Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.</p>	<p>Grade level: 10 – 11  Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<b>COLLEGE PREPARATORY ENGLISH AB</b>	<b>3131 AB</b>
<p>This is a College Preparatory course for seniors only intended to help students hone their skills prior to taking the TSIA college placement exam. This course is stacked with 9007T in the student’s schedule.</p>	CP110100
<p><u>Instructional Material:</u> <i>Prestwick House: College &amp; Career Readiness: Writing;</i> TCC stipulates the resources and requires teacher training  <u>Prerequisites:</u> Students who have not yet met college readiness standards  <u>What’s Next?</u> NA  Credits may or may not be available to count toward your graduation plan - see your counselor for more details. Students on the <i>Foundation HS Graduation Plan</i> may earn advanced English Language Arts credit for an <i>ELAR College Preparatory</i> course (both semesters are required) only if the student has already completed the three previous English Language Arts credit requirements for the <i>Foundation HS Graduation Plan</i> prior to taking these courses.</p> <ul style="list-style-type: none"> <li>• This course is a preparation course for success on TSIA and will no longer provide exemption at TCCD.</li> <li>• English Language Arts college preparatory courses only provide high school credit if the student completes both semesters with at least a 70 average for both and if qualifications noted below in #3 are met.</li> <li>• This college ELAR preparatory course is developmental and will not provide any dual credit.</li> </ul> <p>See the decision point situations listed below that a student should consider when determining if this course will provide the benefits he/she needs.</p>	<p>Grade level: 12 only    Credit(s): 0.5 - 1  College Hour(s): NA  <b>Tier III</b></p>
<ol style="list-style-type: none"> <li>1. If the student has not passed the English I and English II EOC, then it is recommended that students complete all coursework required in order to pass the EOC exams prior to enrolling in this course. (Students who have not passed English I or II EOC can be scheduled into the course for their senior year.)</li> <li>2. Students on the <i>Recommended HS Graduation Plan</i> or <i>Distinguished Achievement Graduation Plan</i> who complete an English Language Arts college preparatory course may not use the credit earned to satisfy an advanced ELAR credit.</li> <li>3. Students on the <i>Foundation HS Graduation Plan</i> may earn advanced ELAR credit for an English Language Arts college preparatory course (both semesters required =1 credit) only if the student has already completed the three previous ELAR credit requirements for the <i>Foundation Graduation Plan</i> prior to taking this class.</li> </ol>	

4. This course will be taught on a high school campus, and follows curricular guidance from Tarrant County Community College but follows all FWISD grading guidelines.

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

**Texas College Bridge English (Online)**

**9005 T**

This is a College Preparatory course for seniors only intended to help students hone their skills prior to collegiate level English courses.

CP110100

Instructional Material: *Prestwick House: College & Career Readiness: Writing; Texas College Bridge stipulates the resources and requires teacher training*

Grade level: 11-12

Prerequisites: Students who have not yet met college readiness standards

Credit(s): 1

What's Next? N/A

College Hour(s): N/A

**Tier III**

*Credits for this program alone are not available to count toward graduation.*

\*This course counts for elective credit only towards graduation.

- This course is a preparation course for success in collegiate level English and will provide exemption at Higher Ed Institutions that partner with Texas College Bridge.
- Students will receive a certificate of completion up finishing both Stage 1 and Stage 2 to share with colleges or universities that partner with Texas College Bridge and the student intends to enroll.

These College Preparatory courses are developmental courses and will not provide any dual credit. See the decision-point situations listed below that a student should consider in determining if this course will provide the benefits he/she needs.

1. If the student is not enrolled in a program that offers a certification/licensure.
2. If the student is not within 3 college credit hours in Math/English or 9 college credit hours in other.
3. If student is not enrolled in a Dual Credit, IB, AP, nor OnRamps Course or if student grades and/or test scores are not aligned with success for the student enrolled in the course.
4. If student intends to enlist in the military and no other CCMR pathway is assigned.
5. If student is not enrolled in any CCMR course or programs.
6. If student wants to participate in the program for TSIA prep or other reasons.

**DUAL CREDIT ENGLISH III A**

**3039 A**

**TCC Course: English Composition I (ENGL 1301)**

**TWU Course: Composition and Rhetoric (ENG 1301)**

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

03220300

Instructional Material: NA

Grade level: 11 - 12

FWISD Prerequisites: English II

ECHS: 9 – 12

TCC Prerequisites: TSI compliant in writing and reading

Credit(s): 0.5

TWU Prerequisites: Only offered at Dunbar

College Hour(s): 3 hours

What's Next? ENGL 1302

**Tier I**

*Course taught by an approved adjunct instructor*

**DUAL CREDIT ENGLISH III B**

**3039 B**

**TCC Course: English Composition II (ENGL 1302)**

**TWU Course: Composition and Literature (ENG 1302)**

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

03220300

Instructional Material: NA

Grade level: 11 – 12

FWISD & TCC Prerequisites: ENGL 1301

ECHS: 9 – 12

TWU Prerequisites: ENG 1301; Only offered at Dunbar

Credit(s): 0.5

What's Next? ENGL 2322 or ENGL 2327

College Hour(s): 3 hours

**Tier I**

*Course taught by an approved adjunct instructor*

**ENGLISH IV AB**

**3017 AB**

Provides students opportunities to continue to increase and refine their communication skills. Students use the writing process to practice a variety of forms of writing including business, personal, literary, and persuasive texts. Students read extensively in multiple genres from British and other world literature while learning literary forms and terms from the selections being read. Students address the writing, reading, speaking, listening, viewing, and representing skills that are reflected in the TEKS.

03220400

Instructional Material: *1079 – McGraw Hill Study Sync, Grade 12 TX Std, ISBN 9781265535973;*

Grade level: 11 – 12

*1080 – Prentice Hall Writing Coach, Texas Edition, Grade 12, Pearson Education, Inc., publishing as Prentice Hall,*

Credit(s): 1

ISBN: 9780132534888	College Hour(s): NA
Prerequisites: English III	<b>Tier III</b>
<u>What's Next?</u> AP Literature and Composition, AP Language and Composition and any other advanced English course. Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>DUAL CREDIT ENGLISH IV A</b>	<b>3040 A</b>
<b>TCC Course: English Composition I (ENGL 1301)</b> <b>TWU Course: Composition and Rhetoric (ENG 1301)</b>	
Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.	03220400
<u>Instructional Material:</u> NA	Grade level: 11 – 12
<u>FWISD Prerequisites:</u> English III, Honors English III ACT, Honors English III, or AP English Language and Composition and student interest.	ECHS: 9 - 12
<u>TCC Prerequisites:</u> TSI compliant in writing and reading	Credit(s): 0.5
<u>TWU Prerequisites:</u> Only offered at Dunbar	College Hour(s): 3 hours
<u>What's Next?</u> ENGL-1302	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor</i>	
<b>DUAL CREDIT ENGLISH IV B</b>	<b>3040 B</b>
<b>TCC Course: English Composition II (ENGL 1302)</b> <b>TWU Course: Composition and Literature (ENG 1302)</b>	
Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.	03220400
<u>Instructional Material:</u> NA	Grade level: 11 – 12
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1301	ECHS: 9 - 12
<u>TWU Prerequisites:</u> ENG 1301; Only offered at Dunbar	Credit(s): 0.5
<u>What's Next?</u> ENGL 2322 or ENGL 2327	College Hour(s): 3 hours
<i>Course taught by an approved adjunct instructor</i>	<b>Tier I</b>
<b>DUAL CREDIT ENGLISH IV A</b>	<b>3041 A</b>
<b>TCC Course: British Literature I to 1800 (ENGL 2322)</b>	
A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.	03220400
<u>Instructional Material:</u> NA	Grade level: 11 – 12
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302	ECHS: 9-12
<u>What's Next?</u> ENGL 2323	Credit(s): 0.5
<i>Course taught by an approved adjunct instructor</i>	College Hour(s): 3 hours
	<b>Tier I</b>
<b>DUAL CREDIT ENGLISH IV B</b>	<b>3041 B</b>
<b>TCC Course: British Literature II since 1800 (ENGL 2323)</b> <b>TWU Course: British Literature (ENG 2328)</b>	
A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.	03220400
<u>Instructional Material:</u> NA	Grade level: 11 – 12
<u>FWISD Prerequisites:</u> ENGL 2322	ECHS: 9 - 12
<u>TCC Prerequisites:</u> ENGL 1302	Credit(s): 0.5
<u>TWU Prerequisites:</u> ENG 2326; Only offered at Dunbar	College Hour(s): 3 hours
<u>What's Next?</u> NA	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor</i>	
<b>DUAL CREDIT ENGLISH IV A</b>	<b>3046 A</b>
<b>TCC Course: American Literature I to 1865 (ENGL 2327)</b> <b>TWU Course: American Literature (ENG 2326)</b>	
A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.	03220400
	Grade level: 11 – 12
	ECHS: 9 -12

<u>Instructional Material:</u> NA <u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302 <u>TWU Prerequisites:</u> Only offered at Dunbar <u>What's Next?</u> ENGL 2328	Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b>
<i>Course taught by an approved adjunct instructor</i>	
<b>DUAL CREDIT ENGLISH IV B</b>	<b>3046 B</b>
<b>TCC Course: American Literature II since 1865 (ENGL 2328)</b>	
A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.	03220400 Grade level: 11 – 12 ECHS: 9 -12
<u>Instructional Material:</u> NA <u>FWISD &amp; TCC Prerequisites:</u> ENGL 130 <u>What's Next?</u> NA	Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b>
<i>Course taught by an approved adjunct instructor</i>	
<b>AP ENGLISH LANGUAGE AND COMPOSITION AB</b>	<b>3062 AB</b>
Prepares students for the College Board Language and Composition Examination. Designed for highly motivated students who wish to complete the equivalent of an introductory college course in language, rhetoric, and expository writing. Engages students as skilled readers of various literary works that are written in a variety of periods, disciplines, and rhetorical contexts. Engages students as skilled writers who compose for a variety of purposes. Requires the use of appropriate and sophisticated grammatical conventions and linguistic choices in effective critical writing.	A3220100
<u>Instructional Material:</u> <i>Prestwick House: Rhetoric, Logic, &amp; Argumentation; The Language of Composition: Reading, Writing Rhetoric, Bedford, Freeman and Worth, ISBN 1319104371</i> <u>Prerequisites:</u> English II (or Honors); or English III (or Honors); student interest <u>What's Next?</u> Advanced English Course Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier I</b>
<b>AP ENGLISH LITERATURE AND COMPOSITION AB</b>	<b>3064 AB</b>
Prepares students for the College Board Literature and Composition Examination. Designed for highly motivated students who wish to complete the equivalent of an introductory college course in literature and expository writing. Includes narrative, exploratory, expository, and argumentative writing. Emphasizes critical analysis and research. Explores representative works from various genres and periods, particularly world literature, with a concentration on works of recognized literary merit. Focuses on critical thinking, critical reading, and critical writing about selected prose and poetry.	A3220200 Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier I</b>
<u>Instructional Material:</u> <i>1043 – Prestwick House: Rhetorical Devices; AP Literature and Composition, Bedford, Freeman, &amp; Worth, ISBN: 1451682516</i> <u>Prerequisites:</u> English II (or Honors), English III (or Honors), or AP English Language & Composition, and student interest <u>What's Next?</u> Advanced English Course Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>HUMANITIES AB</b>	<b>3117 AB</b>
Humanities is an interdisciplinary course in which students recognize writing as an art form. Students read widely to understand how various authors craft compositions for various aesthetic purposes. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Humanities is a rigorous course of study in which high school students respond to aesthetic elements in texts and other art forms through outlets such as discussions, journals, oral interpretations, and dramatizations. Students read widely to understand the commonalities that literature shares with the fine arts. In addition, students use written composition to show an in-depth understanding of creative achievements in the arts and literature and how these various art forms are a reflection of history. All students are expected to participate in classroom discussions and presentations that lead to an understanding, appreciation, and enjoyment of critical, creative achievements throughout history. Understanding is demonstrated through a variety of media.	03221600 Grade level: 11 – 12 Credit(s): 0.5- 2 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i> <u>Prerequisites:</u> English II, English III or AP Literature or AP Language – may count as the 4 <sup>th</sup> English credit <u>What's Next?</u> Any offered elective Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>HONORS HUMANITIES ABH</b>	<b>3119 ABH</b>
Includes the study of major historical and cultural movements and their relationship to literature and the other fine Arts. Offers academically motivated students' opportunities to write extensively for a variety of purposes and audiences with emphasis on rhetorical terminology and strategies and a focus on understanding creative achievements in the arts and literature and how these various art forms are a reflection of history. Emphasizes	03221600

critical and analytical response to various artistic, literary, philosophical, and political works. Addresses universal themes through critical reading and writing. Students will engage in original research that is to culminate in a project that meets the requirements for a Distinguished Achievement Program diploma advanced measure. Approval to add this honors course to a campus must be granted by the Secondary English Arts/Literacy Director.	Grade level: 11 – 12 Credit(s): 0.5- 2
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> English II, English III or AP Literature or AP Language – may count as the 4 <sup>th</sup> English credit	<b>Tier II</b>
<u>What's Next?</u> AP Literature, AP Language, AP World History, AP United States History, or any offered elective. Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>DUAL CREDIT LITERARY HUMANITIES AB</b>	<b>3118 AB</b>
<b>TCC Course: Introduction to Humanities (HUMA 1301)</b> <b>TWU Course: The Human Experience (HUM 2340)</b>	
A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.	03221600 Grade level: NA ECHS: 9 – 12
<u>Instructional Material:</u> NA	Credit(s): 0.5
<u>FWISD Prerequisites:</u> English II	College Hour(s): 3 hours
<u>TCC Prerequisites:</u> NA	<b>Tier I</b>
<u>TWU Prerequisites:</u> Only offered at Dunbar	
<u>What's Next?</u> NA <i>Course taught by an approved adjunct instructor</i>	
<b>INDEPENDENT STUDY IN ENGLISH AB</b>	<b>3138</b>
Students enrolled in Independent Study in English will focus on a specialized area of study such as the work of a particular author or genre. Students will read and write in multiple forms for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written compositions on a regular basis and carefully examine their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Independent Study in English may be repeated with different content for up to three state elective credits.	03221800 Grade level: 12
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>	Credit(s): 0.5 - 1
<u>Prerequisites:</u> Creative and Imaginative Writing IT	College Hour(s): NA
<u>What's Next?</u> Any offered elective <i>32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=21</i>	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>HONORS INDEPENDENT STUDY IN ENGLISH: CRITICAL THINKING FOR COLLEGE READINESS ABH</b>	<b>3066 ABH</b>
Students will use Honors, AP, and other nationally recognized strategies to analyze, synthesize, evaluate and develop the reading and writing skills needed to increase their vocabulary and improve their test taking skills on the SAT. Using the skills they develop, students will research a self-selected topic, develop a professional quality project proposal, and present it to a panel, which will satisfy the requirements necessary for the Distinguished Achievement Program. Independent Study in English may be repeated with different content for up to three state elective credits.	03221800 Grade level: 11 - 12
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>	Credit(s): 0.5-1
<u>Prerequisites:</u> Enrollment in at least one Honors or AP course	College Hour(s): NA
<u>What's Next?</u> Any offered elective <i>32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22</i>	<b>Tier II</b>
Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.	
<b>INDEPENDENT STUDY IN ENGLISH: LINGUISTICS AB</b>	<b>3063 AB</b>
This course is designed to mirror a college-level introductory course in linguistics, with the entire rigor one expects at that level, but with the advantage of meeting five days a week. The topics covered provide a firm foundation for students who wish to engage in further study of linguistics, computer science, foreign languages, social studies, the humanities and psychology. Linguistics is a multi-disciplinary science and students develop proficiency in the kinds of thinking central to many different fields. Students learn to apply objective reasoning to language problems and begin to see the interconnectedness of disciplines many have seen only as separate classes.	03221800 Grade level: 11 – 12
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>	Credit(s): 1
<u>Prerequisites:</u> Concurrent enrollment in AP English Language and Composition, AP English Literature and Composition, or Dual Credit English	College Hour(s): NA
<u>What's Next?</u> NA <i>32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22</i>	<b>Tier I</b>

Offered only at: Paschal High School

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

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**INDEPENDENT STUDY IN ENGLISH: PHILOSOPHY AND LITERATURE**

**3042 AB**

This is an advanced course, with an AP English course as a requirement. Using primary source reading from various stages in the history of philosophy as a model, students will apply observed patterns of thought to questions of knowledge, language, and free will found in the thematic material of literary texts.

03221810

Grade level: 12

Instructional Material: No state-adopted instructional material(s)/Contact Content Director

Credit(s): 1

Prerequisites: AP English Language and Composition, AP English Literature and Composition, or Dual Credit English

College Hour(s): NA

What's Next? NA

**Tier I**

Offered only at Paschal High School

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**DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: AMERICAN LITERATURE T**

**3048 T**

**TCC Course: American Literature II to 1865 (ENGL 2328)**

A survey of American literature from the Civil War to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

03221800

Grade level: 11 – 12

Instructional Material: NA

ECHS: 9 - 12

FWISD & TCC Prerequisites: ENGL 1302

Credit(s): 0.5

What's Next? NA

College Hour(s): 3 hours

Course taught by an approved adjunct instructor.

**Tier I**

32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=20

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**INDEPENDENT STUDY IN ENGLISH: INTRODUCTION TO BIBLICAL LITERACY: HEBREW BIBLE AND NEW TESTAMENT AB**

**3150 AB**

Students will gain familiarity with the narratives and other literary texts of the Hebrew Scriptures and New Testament. Discussion and study will take place from an academic and secular perspective that endorses no particular variety of faith. Class activities will emphasize the need for mutual respect, inquiry, and tolerance of divergent opinions. Students will become familiar with the Biblical stories, images and tropes that have profoundly influenced world literature, art, culture, politics and art, and will also encounter the major trends in academic study of the Bible.

03221800

Grade level: 10 - 12

Instructional Material: No state-adopted instructional material(s)/Contact Content Director

Credit(s): 0.5-1

Prerequisites: English I and World Geography

College Hour(s): NA

What's Next? Any offered elective

**Tier III**

32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22

Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.

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**DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: BRITISH LITERATURE A**

**3142 A**

**TCC Course: British Literature I to 1800 (ENGL 2322)**

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

03221800

Grade level: 11 – 12

Instructional Material: NA

ECHS: 9 - 12

FWISD & TCC Prerequisites: ENGL 1302

Credit(s): 0.5

What's Next? ENGL 2323

College Hour(s): 3 hours

Course taught by an approved adjunct instructor.

**Tier I**

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**DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: BRITISH LITERATURE B**

**3142 B**

**TCC Course: British Literature II Since 1800 (ENGL 2323)**

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

03221800

Grade level: 11 - 12

Instructional Material: NA

ECHS: 9 – 12

FWISD Prerequisites: ENGL 2322

Credit(s): 0.5

TCC Prerequisites: ENGL 1302

College Hour(s): 3 hours

What's Next? NA

**Tier I**

Course taught by an approved adjunct instructor

32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22



<b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: MEXICAN-AMERICAN LITERATURE T</b> <b>TCC Course: Mexican-American Literature (ENGL 2351)</b>	<b>3144 T</b>
A survey of Mexican-American/Chicano/a literature including fiction, non-fiction, poetry, and drama.	03221800
<u>Instructional Material:</u> NA	Grade level: NA
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302	ECHS: 9 - 12
<u>What's Next?</u> NA	Credit(s): 0.5
<i>Course taught by an approved adjunct instructor</i>	College Hour(s): 3 hours
32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22	<b>Tier I</b>
<b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: WORLD LITERATURE IT</b> <b>TCC Course: World Literature I to 1650 (ENGL 2332)</b>	<b>3146 T</b>
A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.	03221800
<u>Instructional Material:</u> NA	Grade level: NA
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302	ECHS: 9 - 12
<u>What's Next?</u> NA	Credit(s): 0.5
<i>Course taught by an approved adjunct instructor</i>	College Hour(s): 3 hours
32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22	<b>Tier I</b>
<b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: WORLD LITERATURE IIT DC</b> <b>TCC Course: World Literature II From 1650 (ENGL 2333)</b>	<b>3147 T</b>
A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.	03221800
<u>Instructional Material:</u> NA	Grade level: NA
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302	ECHS: 9 - 12
<u>What's Next?</u> NA	Credit(s): 0.5
<i>Course taught by an approved adjunct instructor.</i>	College Hour(s): 3 hours
32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22	<b>Tier I</b>
<b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: FORMS OF LITERATURE IT</b> <b>TCC Course: Forms of Literature I (ENGL 2342)</b>	<b>3148 T</b>
The study of one or more literary genres including, but not limited to, poetry, fiction, drama and film.	03221800
<u>Instructional Material:</u> NA	Grade level: NA
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302	ECHS: 9 - 12
<u>What's Next?</u> NA	Credit(s): 0.5
<i>Course taught by an approved adjunct instructor</i>	College Hour(s): 3 hours
32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22	<b>Tier I</b>
<b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: FORMS OF LITERATURE IIT</b> <b>TCC Course: Forms of Literature II (ENGL 2343)</b>	<b>3149 T</b>
The study of one or more literary genres including, but not limited to, poetry, fiction, drama and film.	03221810
<u>Instructional Material:</u> NA	Grade level: NA
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1302	ECHS: 9 - 12
<u>What's Next?</u> NA	Credit(s): 0.5
<i>Course taught by an approved adjunct instructor</i>	College Hour(s): 3 hours
32218## 1st Time taken: ##=00, 2nd Time taken: ##=10, 3rd Time taken: ##=22	<b>Tier I</b>
<b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: RESEARCH &amp; TECHNICAL WRITING T</b> <b>TCC Course: Technical &amp; Business Writing (ENGL 2311)</b>	<b>3152 T</b>
Students enrolled in this course will focus on developing skills necessary for writing persuasive and informative texts. This rigorous composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop and apply criteria for effective writing, and set their own goals as writers.	03221810
<u>Instructional Material:</u> NA	Grade level: 11 - 12
<u>FWISD &amp; TCC Prerequisites:</u> ENGL 1301	Credit(s): 0.5
<u>What's Next?</u> NA	College Hour(s): 3 hours
<i>Course taught by an approved adjunct instructor</i>	<b>Tier I</b>

<p><b>DUAL CREDIT INDEPENDENT STUDY IN ENGLISH: CREATIVE WRITING T</b>  <b>TCC Course: Creative Writing I (ENGL 2307)</b></p>	<p><b>3151 T</b></p>
<p>Students enrolled in this course will focus on a rigorous composition course that asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.</p>	<p>03221800  Grade level: 11 - 12  Credit(s): 0.5  College Hour(s): 3 hours  <b>Tier I</b></p>
<p><u>Instructional Material:</u> NA  <u>FWISD &amp; TCC Prerequisites:</u> ENGL 1301  <u>What's Next?</u> NA  <i>Course taught by an approved adjunct instructor.</i></p>	
<p><b>JOURNALISM AB</b></p>	<p><b>3515 AB</b></p>
<p>Students will become analytical consumers of media and technology to enhance their communication skills. Writing, technology, visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students will learn journalistic traditions, research self-selected topics, write journalistic texts, and learn the principles of publishing.</p>	<p>03230100</p>
<p><u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042  <u>Prerequisites:</u> English I  <u>What's Next?</u> Advanced Journalism: Newspaper I AB; Honors Advanced Journalism: Newspaper I ABH; Advanced Journalism: Yearbook or Literary Magazine I AB; Honors Advanced Journalism: Yearbook or Literary Magazine I ABH; any offered elective</p>	
<p><b>HONORS JOURNALISM ABH</b></p>	<p><b>3514 ABH</b></p>
<p>The Journalism I AB Honors course provides a means for students seeking a more rigorous curriculum to earn Honors credit upon successful completion. This course will also count as a pre-requisite to enroll in the Honors Newspaper or Yearbook courses (Newspaper or Yearbook I AB). The Journalism I AB Honors course will build on the Journalism I AB curriculum by allowing students to become analytical consumers of media and technology to enhance their communications skills through the application and use of the Associated Press stylebook, journalistic writing assignments, and hands-on projects.</p>	<p>03230100  Grade level: 9 – 12</p>
<p><u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042  <u>Prerequisites:</u> Honors English I  <u>What's Next?</u> Placement in Honors Yearbook or Newspaper I AB</p>	
<p><b>ADVANCED JOURNALISM: NEWSPAPER I AB</b></p>	<p><b>3518 AB</b></p>
<p>Course emphasizes advanced work involving reporting, advertising campaigns, in-depth research, career journalism, and original projects. Centers around advanced instruction in advertising, editorial writing, in-depth reporting, and individual projects.</p>	<p>03230140</p>
<p><u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042  <u>Prerequisites:</u> Journalism IA or IB  <u>What's Next?</u> Advanced Journalism; Newspaper II AB; Honors Advanced Journalism; Newspaper II AB; Any offered elective.</p>	
<p><b>HONORS ADVANCED JOURNALISM: NEWSPAPER I ABH</b></p>	<p><b>3519 ABH</b></p>
<p>Provides instruction in all phases of newspaper journalistic production including the study of various career opportunities and job types.</p>	<p>03230140</p>
<p><u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042  <u>Prerequisites:</u> Journalism I and/or submission of a portfolio.  <u>What's Next?</u> Advanced Journalism: Newspaper II AB  Students will create portfolios containing exemplars of their work.</p>	
<p><b>ADVANCED JOURNALISM: NEWSPAPER II AB</b></p>	<p><b>3520 AB</b></p>
<p>This course includes detailed study of communication via the printed media, writing styles in content and conventions, news analysis, photography, page and section design and production, and techniques in marketing, sales, and distribution. It emphasizes career opportunities available in the field of publications. It allows students to become competent in various publishing programs and the technology necessary to implement them.</p>	<p>03230150  Grade level: 10 - 12</p>
<p><u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>  <u>Prerequisites:</u> Advanced Journalism; Newspaper I; and either Touch System Data Entry; Business Information Management I; Principles of Information Technology  <u>What's Next?</u> Any offered elective.</p>	

<b>HONORS ADVANCED JOURNALISM: NEWSPAPER II ABH</b>	<b>3522 ABH</b>
In-depth study and practice in the process of creating an edition of a newspaper. Students will better define the skills necessary to produce a newspaper such as researching, writing, editing, photography, layout, sales, and marketing plus the technology described in Advanced Journalism: Newspaper II AB. Honors students will also assume leadership positions such as editors, chief photographers, sales managers, etc. to direct the work of the newspaper staff and will take on additional assignments and projects to earn honors credit.	03230150
<u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Content Director	
<u>Prerequisites:</u> Advanced Journalism: Newspaper I AB or Honors Advanced Journalism: Newspaper I AB; and four of the following; English I or English II; Touch System Data Entry; Business Information Management I; Principles of Information Technology; student interest.	Grade level: 10 – 12 Credit(s): 0.5 - 1 College Hour(s): NA
<u>What's Next?</u> Honors Advanced Journalism: Newspaper III AB; Any offered elective.	<b>Tier II</b>
<b>HONORS ADVANCED JOURNALISM: NEWSPAPER III ABH</b>	<b>3524 ABH</b>
Honors Advanced Journalism: Newspaper III AB/H will go beyond the Newspaper II AB/H requirements to focus primarily on developing student's leadership abilities in guiding incoming staff in producing at least six issues of a student newspaper for the school year. Students will: 1) continue to apply the writing, editing, and photography skills learned in Newspaper II AB/H; 2) assume overall leadership responsibilities including the editor-in-chief, co-editor-in chief, business manager, or managing editor; 3) work to train all incoming staff members in areas such as copyediting, technology, design themes, newspaper writing, and style; 4) and come up with creative ideas to reach new advertisers. The portfolio submitted for review prior to enrollment will include two examples of journalistic writing and/or 5-10 examples of journalistic photography with captions prior to being enrolled in the honors class. The portfolio will be evaluated by journalism/publications teacher using standard journalistic style considerations.	03230160
<u>Instructional Material:</u> 1155 – Journalism Today! McGraw-Hill School Division, ISBN: 0658004042	Grade level: 10 – 12
<u>Prerequisites:</u> Advanced Journalism: Newspaper II AB and submission of portfolio for evaluation, and student must have held a leadership position for a publication for at least one year prior.	Credit(s): 0.5 - 1 College Hour(s): NA
<u>What's Next?</u> Any offered elective.	<b>Tier II</b>
<b>ADVANCED JOURNALISM: LITERARY MAGAZINE I AB</b>	<b>3544 AB</b>
Course emphasizes advanced work involving reporting, advertising campaigns, in-depth research, career journalism, and original projects. Centers around advanced instruction in advertising, editorial writing, in-depth reporting, and individual projects.	03230170
<u>Instructional Material:</u> 1155 – Journalism Today! McGraw-Hill School Division, ISBN: 0658004042	Grade level: 9 - 12
<u>Prerequisites:</u> Journalism IA or IB	Credit(s): 0.5 - 1 College Hour(s): NA
<u>What's Next?</u> Advanced Journalism; Newspaper II AB; Honors Advanced Journalism; Newspaper II AB; Any offered elective	<b>Tier III</b>
<b>HONORS ADVANCED JOURNALISM: LITERARY MAGAZINE I ABH</b>	<b>3546 ABH</b>
Course emphasizes advanced work and leadership positions such as section editors involved in reporting, advertising campaigns, in-depth research, career journalism, and original projects. Centers around advanced instruction in advertising, editorial writing, in-depth reporting, and individual projects. This honors level I course will go beyond the regular course requirements providing a rigorous in-depth focus requiring the students to 1) Continue to apply the writing, editing, and photography skills learned in Journalism I AB; 2) Assume leadership positions such as section editors; 3) Work collaboratively with the editor(s)-in-chief to direct the work of the newspaper staff; 4) Take on additional assignments such as advertising sales and section design and layout using necessary technology to produce each issue of the newspaper; 5) Submit a portfolio for review including: 2 examples of journalistic writing and/or 5 – 10 examples of journalistic photography with captions prior to being enrolled in the honors class. The portfolio will be evaluated by journalism/publications teacher using standard journalistic style considerations.	03230170
<u>Instructional Material:</u> 1155 – Journalism Today! McGraw-Hill School Division, ISBN: 0658004042	Grade level: 10 – 12
<u>Prerequisites:</u> Journalism I and/or submission of a portfolio	Credit(s): 0.5 - 1 College Hour(s): NA
<u>What's Next?</u> Advanced Journalism; Newspaper II AB; Honors Advanced Journalism; Newspaper II AB; Any offered elective	<b>Tier II</b>
<b>ADVANCED JOURNALISM: LITERARY MAGAZINE II AB</b>	<b>3548 AB</b>
This course includes detailed study of communication via the printed media, writing styles, news analysis, photography, page and section design, production, and techniques in marketing, sales, and distribution. It emphasizes career opportunities available in the field of publications. It allows students to become competent in various publishing programs and the technology necessary to implement them.	03230180
<u>Instructional Material:</u> 1155 – Journalism Today! McGraw-Hill School Division, ISBN: 0658004042	Grade level: 10 - 12
<u>Prerequisites:</u> Advanced Journalism; Newspaper I; and either Touch System Data Entry; Business Information Management I; Principles of Information Technology	Credit(s): 0.5 - 1 College Hour(s): NA
<u>What's Next?</u> Any offered elective.	<b>Tier III</b>

<b>HONORS ADVANCED JOURNALISM: LITERARY MAGAZINE II ABH</b>	<b>3550 ABH</b>
In-depth study and practice in the process of creating an edition of a newspaper. Students will better define the skills necessary to produce a newspaper such as researching, writing, editing, photography, layout, sales, and marketing plus the technology described in Advanced Journalism: Newspaper II AB. Honors students will also assume leadership positions such as editors, chief photographers, sales managers, etc. to direct the work of the newspaper staff and will take on additional assignments and projects to earn honors credit.	03230180
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042	
<u>Prerequisites:</u> Advanced Journalism: Newspaper I or Honors Advanced Journalism; Newspaper I; and four of the following: English I or English II: Touch System Data Entry; Business Information Management I; Principles of Information Technology; student interest.	Grade level: 10 – 12 Credit(s): 0.5 - 1 College Hour(s): NA
<u>What's Next?</u> Honors Advanced Journalism: Newspaper III AB; Any offered elective.	<b>Tier II</b>
<b>ADVANCED JOURNALISM: LITERARY MAGAZINE III T</b>	<b>3552 T</b>
Provides instruction in all phases of magazine-type journalistic production, including the literary magazine.	03230190 Grade level: 10 - 12
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042	Credit(s): 0.5
<u>Prerequisites:</u> Advanced Journalism; Literary Magazine II	College Hour(s): NA
<u>What's Next?</u> Any offered elective	<b>Tier III</b>
<b>HONORS ADVANCED JOURNALISM: LITERARY MAGAZINE III ABH</b>	<b>3554 ABH</b>
Honors Literary Magazine will go beyond the Literary Magazine II requirements to focus primarily on developing students' leadership abilities in guiding incoming staff in producing the school yearbook or literary magazine publication. Students will: 1) assume overall leadership responsibilities including the editor-in-chief, co-editor-in-chief, or business ads/sales manager 2) train all incoming staff members in areas such as copy editing, technology, design themes, writing, and overall style for the yearbook; 3) have overall responsibility for maintaining/increasing sales and ad sales; 4) come up with creative ideas to reach new advertisers; and 5) develop an overall theme for the yearbook and create sections and pages that represent this theme throughout the yearbook.	03230190 Grade level: 10 - 12
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042	Credit(s): 0.5 - 1
<u>Prerequisites:</u> Advanced Journalism: Yearbook or Literary Magazine II, student must have held a leadership position for the publication for at least a year prior, and submit a portfolio for evaluation.	College Hour(s): NA
<u>What's Next?</u> Any offered elective	<b>Tier II</b>
<b>ADVANCED JOURNALISM: YEARBOOK I AB</b>	<b>3558 AB</b>
Students will plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English while learning ethics and standards. Writing, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students refine and enhance journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s).	03230110 Grade level: 10 - 12 Credit(s): 0.5 - 1
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042	College Hour(s): NA
<u>Prerequisites:</u> Taken in sequence	<b>Tier III</b>
<u>What's Next?</u> Advanced Journalism: Yearbook II or Advanced Journalism; Literary Magazine; Any offered elective.	
<b>HONORS ADVANCED JOURNALISM: YEARBOOK I ABH</b>	<b>3556 ABH</b>
Provides instruction in all phases of magazine-type journalistic production, including the literary magazine.	03230110 Grade level: 10 – 12
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042	Credit(s): 0.5 - 1
<u>Prerequisites:</u> Advanced Journalism: Yearbook or Literary Magazine I and four of the following: English I or English II; Touch System Data Entry; Business Information Management I; Principles of Information Technology, student interest and/or submission of a portfolio.	College Hour(s): NA
<u>What's Next?</u> Level II honors courses	<b>Tier II</b>
<b>ADVANCED JOURNALISM: YEARBOOK II AB</b>	<b>3560 AB</b>
Students will plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English while learning ethics and standards. Writing, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students refine and enhance journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s).	03230120 Grade level: 10 - 12 Credit(s): 0.5 - 1
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042	College Hour(s): NA
<u>Prerequisites:</u> Taken in sequence	<b>Tier III</b>
<u>What's Next?</u> Advanced Journalism: Yearbook III or Advanced Journalism: Literary Magazine; Any offered elective.	
<b>HONORS ADVANCED JOURNALISM: YEARBOOK II ABH</b>	<b>3564 ABH</b>
In-depth study and practice in the process of producing a specific publication being yearbook. Students will better define their skills in page layout, photography and graphics layout, article and caption writing, time management, teamwork, sales, and marketing. Students will also implement the technology necessary to accomplish these skills.	03230120 Grade level: 9 – 12

Honors students will also assume leadership positions such as section editors, chief photographers, and sales managers to direct the work of the publications' staff. Students will undertake additional assignments and projects to earn honors credit.	Credit(s): 0.5 - 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042 <u>Prerequisites:</u> Advanced Journalism: Yearbook or Literary Magazine I and four of the following: English I or English II; Touch System Data Entry; Business Information Management I; Principles of Information Technology. <u>What's Next?</u> Honors Advanced Journalism; Yearbook or Literary Magazine III; any offered elective	
<b>ADVANCED JOURNALISM: YEARBOOK IIIT</b>	<b>3562 T</b>
Provides instruction in all phases of magazine-type journalistic production, including the literary magazine.	03230130 Grade level: 9 - 12
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042 <u>Prerequisites:</u> Creative and Imaginative Writing IT <u>What's Next?</u> Any offered elective	Credit(s): 0.5 College Hour(s): NA <b>Tier III</b>
<b>HONORS ADVANCED JOURNALISM: YEARBOOK III ABH</b>	<b>3568 ABH</b>
Honors Yearbook will go beyond the Yearbook II requirements to focus primarily on developing students' leadership abilities in guiding incoming staff in producing the school yearbook or literary magazine publication. Students will: 1) assume overall leadership responsibilities including the editor-in-chief, co-editor-in-chief, or business ads/sales manager; 2) train all incoming staff members in areas such as copy editing, technology, design themes, writing, and overall style for the yearbook; 3) have overall responsibility for maintaining/increasing sales and ad sales; 4) come up with creative ideas to reach new advertisers; and 5) develop an overall theme for the yearbook and create sections and pages that represent this theme throughout the yearbook.	03230130
<u>Instructional Material:</u> 1155 – <i>Journalism Today!</i> McGraw-Hill School Division, ISBN: 0658004042 <u>Prerequisites:</u> Advanced Journalism: Yearbook or Literary Magazine II, student must have held a leadership position for the publication for at least a year prior, and submit a portfolio for evaluation. <u>What's Next?</u> Any offered elective	Grade level: 9 – 12 Credit(s): 0.5 - 1 College Hour(s): NA <b>Tier II</b>
<b>ADVANCED BROADCAST JOURNALISM I AB</b>	<b>0714 AB</b>
Course emphasizes radio and television broadcasting. Students are provided opportunities to understand radio waves, the radio spectrum, and the history and significance of radio and television broadcasting. Students explore issues in legal and ethical responsibilities of non-print media, analyze non-print media coverage of news, and work within regulatory constraints. Students are also provided opportunities to distinguish between capabilities of print and non-print media news coverage, to select coverage, and to gather news.	03231900 Grade level: 9 - 12
<u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Content Director <u>Prerequisites:</u> Taken in sequence <u>What's Next?</u> Any offered elective	Credit(s): 0.5 - 1 College Hour(s): NA <b>Tier III</b>
<b>ADVANCED BROADCAST JOURNALISM II AB</b>	<b>0716 AB</b>
Provides opportunities for students to learn about the history and functions of broadcast media; laws and ethical considerations affecting broadcast media; impact of radio/television on society; production techniques including script writing, voice performance techniques, advertising strategies, career opportunities; and establishment of evaluation criteria. Students will produce, individually and in small groups, video productions emphasizing informational, documentary, and dramatic themes. All steps of production from script writing to tape editing will be included.	03231901 Grade level: 9 - 12
<u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Content Director <u>Prerequisites:</u> Advanced Broadcast Journalism I <u>What's Next?</u> Any offered elective	Credit(s): 0.5 - 1 College Hour(s): NA <b>Tier III</b>
<b>PHOTOJOURNALISM AB</b>	<b>0715 AB</b>
Provides opportunities to plan photographs and to illustrate news events with appropriate photos and captions. In addition, students learn to operate various types of cameras, light meters, and electronic strobes; to use the darkroom; to use film processing supplies; and to identify available supplementary services. Students also learn to crop and scale photographs and are provided opportunities to apply principles of balance and contrast.	03230800 Grade level: 9 - 12
<u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Content Director <u>Prerequisites:</u> Taken in sequence <u>What's Next?</u> Any offered elective	Credit(s): 0.5 - 1 College Hour(s): NA <b>Tier III</b>
<b>INDEPENDENT STUDY/JOURNALISM T</b>	<b>3566 T</b>
Includes activities individually designed for high-achieving students who are interested in conducting research, producing original work in print or in some other medium, extensively developing an advanced skill, or studying a specific area of interest. Independent Study in Journalism may be repeated with different content each time it is repeated for up to three state elective credits.	032310##

<p><u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i></p> <p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> Any offered elective</p> <p>032310## - 1st Time ##=00, 2nd time ##=11, 3rd Time ##=22</p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>INDEPENDENT STUDY IN JOURNALISM AB</b></p> <p>Includes activities individually designed for high-achieving students who are interested in conducting research, producing original work in print or in some other medium, extensively developing an advanced skill, or studying a specific area of interest. Independent Study in Journalism may be repeated with different content each time it is repeated for up to three state elective credits.</p>	<p><b>0717 AB</b></p> <p>032310##</p>
<p><u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i></p> <p><u>Prerequisites:</u> Taken in sequence</p> <p><u>What's Next?</u> Any offered elective</p> <p>032310## - 1st Time ##=00, 2nd time ##=11, 3rd Time ##=22</p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 0.5-1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>AP CAPSTONE PROGRAM – COURSE 1: AP SEMINAR</b></p> <p>In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. Students engage in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives.</p> <p>Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as a part of a team.</p>	<p><b>3065 AB</b></p> <p>N1130026</p>
<p><u>Instructional Material:</u> <i>St. Martin's Guide to Writing, Bedford, Freeman, &amp; Worth, ISBN: 1319245072</i></p> <p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> NA</p> <p>Teachers with an emergent bilingual student enrolled in the course must be English and ESL certified.</p>	<p>Grade level: 9 - 12</p> <p>Credit(s): 0.5 - 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>AP CAPSTONE PROGRAM – COURSE 2: AP RESEARCH</b></p> <p>In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students explore an academic topic, problem, or area of individual interest deeply. Through this exploration, they design, plan, and conduct a yearlong mentored, research-based investigation to address a research question. In this course, students further skills acquired in the AP Seminar course by understanding research methods, employing ethical research practices, and accessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic thesis paper of approximately 5000 words and a presentation, performance, or exhibition with an oral defense.</p>	<p><b>3067 AB</b></p> <p>N1100014</p>
<p><u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i></p> <p><u>Prerequisites:</u> AP Capstone Program – Course 1: AP Seminar</p> <p><u>What's Next?</u> NA</p> <p><i>Offered only at Paschal High School</i></p>	<p>Grade level: 10 - 12</p> <p>Credit(s): 0.5 - 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>

# Reading

<p><b>READING I AB / T</b>  <b>SHELTERED READING I AB – NP</b>  <b>SHELTERED READING I AB</b></p>	<p><b>3941 AB / 3941 T</b>  <b>3942 AB</b>  <b>3962 AB</b></p>
<p>Reading I offers students instruction to successfully navigate academic demands and attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provide students an opportunity to read with competence, confidence, and understanding. Students will learn how traditional and electronic texts are organized and how authors choose language for effect. These strategies will be applied in instructional-level and independent-level texts that cross the content areas. Note: LPAC will determine placement for Transition EL students are placed in this course or in Intensive Reading I. Maximum enrollment: 25 students.</p>	<p>03270700</p>
<p><u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 9 TX Std, ISBN 9781265535973; ThinkCERCA Supplemental Resource</i>  <u>Prerequisites:</u> Students who did not meet minimum standards on previous state reading assessment; students who score one to two levels below grade level on standardized reading screening assessment.  <u>What's Next?</u> Reading II AB  Teachers with an emergent bilingual student enrolled in the course must be ELAR and ESL certified.</p>	<p>Grade level:  Credit(s): 0.5-1  College Hour(s): NA</p>
<p><b>READING II AB / T</b>  <b>SHELTERED READING II AB – NP</b>  <b>SHELTERED READING II AB</b></p>	<p><b>3943 AB / 3943 T</b>  <b>3944 AB</b>  <b>3964 AB</b></p>
<p>Reading II offers students instruction to successfully navigate academic demands and attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provide students an opportunity to read with competence, confidence, and understanding. Students will learn how traditional and electronic texts are organized and how authors choose language for effect. These strategies will be applied in instructional-level and independent-level texts that cross the content areas. Note: LPAC will determine placement for Transition EL students are placed in this course or in Intensive Reading II. Maximum enrollment: 25 students. This course may be stacked with Reading I.</p>	<p>03270800</p>
<p><u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 9 TX Std, ISBN 9781265535973; ThinkCERCA Supplemental Resource</i>  <u>Prerequisites:</u> Required for students who did not meet minimum standards on previous state reading assessment or for students who score one to two levels below grade on standardized reading screening assessment.  <u>What's Next?</u> English III  Teachers with an emergent bilingual student enrolled in the course must be ELAR and ESL certified.</p>	<p>Grade level:  Credit(s): 0.5-1  College Hour(s): NA</p>
<p><b>COLLEGE READINESS AND STUDY SKILLS T</b></p>	<p><b>3955 T</b></p>
<p>High school students that require or request additional honing of the study skills, especially as the students prepare for the demands of college, may enroll in the one semester course College Readiness and Study Skills. In this course, students acquire techniques for learning from texts, including studying word meanings, identifying and relating key ideas, drawing and supporting inferences, and reviewing study strategies. In all cases, interpretations and understandings will be presented through varying forms, including through use of available technology. Students accomplish many of the objectives through wide reading as well as use of content texts in preparation for post-secondary schooling.</p>	<p>03270100</p>
<p><u>Instructional Material:</u> <i>No state-adopted instructional material/ contact content director</i>  <u>Prerequisites:</u> Students having a passing reading grade of 80%or better on the Grade 8 STAAR Reading subtest  <u>What's Next?</u> English II AB; English III AB; English IV AB  Teachers with an emergent bilingual student enrolled in the course must be ELAR and ESL certified.</p>	<p>Grade level: 9 – 12  Credit(s): 0.5  College Hour(s): NA  <b>Tier III</b></p>

# Speech Graduation Requirements

**ALL STUDENTS ARE REQUIRED to take 1 semester of Speech**

**All Plans (22 & 26 credits) Require 0.5 Credit in Speech**

**Speech (1/2 Credit)** may be selected from the following

- Professional Communications (CTE course in each cluster)
- Communication Applications
- Public Speaking
- Debate I
- Honors Debate I
- Independent Study in Speech
- DC Communication Applications

<b>PROFESSIONAL COMMUNICATIONS T</b>	<b>AV09901 T</b>
Professional Communications (CTE Course) blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.	13009900
<u>Instructional Material:</u> <i>Fundamentals of Business Communication, Goodheart-Willcox Publisher; ISBN: 9781605254722</i>	Grade level: 9 – 12
<u>Prerequisites:</u> None	Credit(s): 0.5
<u>What's Next?</u> NA	College Hour(s): NA
<i>Professional Communications can be taught by any teacher certified in speech or any teacher with a Career and Technical Education certification who holds a baccalaureate degree and has completed six semester credit hours in speech. Teachers with an emergent bilingual student enrolled in the course must be CTE or Speech and ESL certified.</i>	<b>Tier III</b>
<b>DUAL CREDIT PROFESSIONAL COMMUNICATION T</b> <b>TCC Course: Business and Professional Communication (SPCH 1321)</b> <b>TWU Course: Fundamentals of Speech (SPC 1301)</b>	<b>AVD09901 T</b>
Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats.	13009900
<u>Instructional Material:</u> NA	Grade level: NA
<u>FWISD &amp; TCC Prerequisites:</u> None	ECHS: 9 - 12
<u>TWU Prerequisites:</u> Only offered at Dunbar	Credit(s): 0.5
<u>What's Next?</u> NA	College Hour(s): 3 hours
<i>Course taught by an approved adjunct instructor.</i>	<b>Tier I</b>
<b>COMMUNICATION APPLICATIONS T</b>	<b>3126 T</b>
Understanding and developing skills in communication are fundamental to all other learning and to all levels of human interaction. For successful participation in professional and social life, students must develop effective communication skills. Rapidly expanding technologies and changing social and corporate systems demand that students send clear verbal messages, choose effective nonverbal behaviors, listen for desired results, and apply valid critical-thinking and problem-solving processes. Students enrolled in Communication Applications will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. When possible, students should consider taking Professional Communications (CTE) in lieu of this course.	03241400
<u>Instructional Material:</u> <i>1103 – Communication Applications, McGraw-Hill School Division, ISBN: 0538429186</i>	Grade level: 9 – 12
<u>Prerequisites:</u> None	Credit(s): 0.5
<u>What's Next?</u> Oral Interpretation I AB; Public Speaking I AB; Debate I AB; Any offered elective.	College Hour(s): NA
<i>Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.</i>	<b>Tier III</b>



<b>DUAL CREDIT COMMUNICATION APPLICATIONS T</b>	<b>3129 T</b>
<b>TCC Course: Introduction to Speech Communication (SPCH 1311)</b>	
Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking.	03241400 Grade level: 11 - 12
<u>Instructional Material:</u> NA	ECCHS: 9 - 12
<u>FWISD &amp; TCC Prerequisites:</u> None	Credit(s): 0.5
<u>What's Next?</u> NA	College Hour(s): 3 hours
<i>Course taught by an approved adjunct instructor</i>	<b>Tier I</b>
<b>ORAL INTERPRETATION I, II, III AB</b>	<b>3713 AB</b>
Literature and its presentation are integral to understanding the cultural aspects of a society. Students in Oral Interpretation I, II, III will select, research, analyze, adapt, interpret, and perform literary texts as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated.	03240200 Grade level: 9 - 12
<u>Instructional Material:</u> <i>No state-adopted textbook/Contact ELA Director</i>	Credit(s): 1-3
<u>Prerequisites:</u> None	College Hour(s): NA
<u>What's Next?</u> Public Speaking I AB; Debate I AB; Any offered elective	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>PUBLIC SPEAKING I AB</b>	<b>3715 AB</b>
In order to have full participation in the civic process, students must have a good understanding of public dialogue. Students must learn the concepts and skills related to preparing and presenting public messages and to analyzing and evaluating the messages of others. Within this process, students will gain skills in reading, writing, speaking, listening, and thinking and will examine areas such as invention, organization, style, memory, and delivery.	03240900 Grade level: 9 - 12
<u>Instructional Material:</u> <i>1136 – Public Speaking Today! McGraw-Hill School Division, ISBN: 0844203696</i>	Credit(s): 0.5 - 1
<u>Prerequisites:</u> None	College Hour(s): NA
<u>What's Next?</u> Oral Interpretation I AB; Debate I AB; Any offered elective	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>DEBATE I AB</b>	<b>3717 AB</b>
Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues.	03240600 Grade level: 9 – 12
<u>Instructional Material:</u> <i>1129 – Lincoln Douglas Debate: Values in Conflict, Perfection Learning Corporation, ISBN: 0931054613</i>	Credit(s): 1
<u>Prerequisites:</u> None	College Hour(s): NA
<u>What's Next?</u> Oral Interpretation I AB; Public Speaking I AB; Debate II AB	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>HONORS DEBATE I ABH</b>	<b>3718 ABH</b>
This program begins with the study of forensic debate. Students will develop skills in research including in-depth reading and formulation of ideas both written and oral. Students will construct arguments that demonstrate an understanding of multiple and varied topics. A key element to this course is the organization of research materials. The course will provide practice and theory emphasizing use of refutation, debate strategy, and evaluation as applied to forensic debate. Students will understand how to use refutation, debate strategies and evaluation methods as applied in forensic debate with focus on UIL practice competition.	03240600 Grade level: 9 – 12
<u>Instructional Material:</u> <i>1129 – Lincoln Douglas Debate: Values in Conflict, Perfection Learning Corporation, ISBN: 0931054613</i>	Credit(s): 1
<u>Prerequisites:</u> None	College Hour(s): NA
<u>What's Next?</u> Oral Interpretation I AB; Public Speaking I AB; Debate II AB	<b>Tier II</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>DEBATE II AB</b>	<b>3719 AB</b>
Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues.	03240700 Grade level: 10 – 12
<u>Instructional Material:</u> <i>1129 – Lincoln Douglas Debate: Values in Conflict, Perfection Learning Corporation, ISBN: 0931054613</i>	Credit(s): 1
	College Hour(s): NA

<u>Prerequisites:</u> Debate I	
<u>What's Next?</u> Debate III AB; Any offered elective	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>HONORS DEBATE II ABH</b>	<b>3720 ABH</b>
This program provides students with opportunities to further the study done in Debate I. Students will develop skills in argumentation and debate with the associated skills of research, writing, and developing presentations. The course will allow for student involvement in Lincoln-Douglas Debate, Cross-Examination Debate, and Extemporaneous Speaking. Elective credit only.	03240700
<u>Instructional Material:</u> 1129 – Lincoln Douglas Debate: Values in Conflict, Perfection Learning Corporation, ISBN: 0931054613	Grade level: 10 – 12 Credit(s): 1
<u>Prerequisites:</u> Debate I	College Hour(s): NA
<u>What's Next?</u> Debate III AB; Any offered elective	<b>Tier II</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>DEBATE III AB</b>	<b>3721 AB</b>
Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues.	03240800
<u>Instructional Material:</u> 1129 – Lincoln Douglas Debate: Values in Conflict, Perfection Learning Corporation, ISBN: 0931054613	Grade level: 10 – 12 Credit(s): 1
<u>Prerequisites:</u> Debate II	College Hour(s): NA
<u>What's Next?</u> Any offered elective	<b>Tier III</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>HONORS DEBATE III ABH</b>	<b>3722 ABH</b>
This program provides students with opportunities to further the study done in Debate II. Students will develop skills in argumentation and debate with the associated skills of research, writing, and developing presentations. The course will allow for student involvement in Lincoln-Douglas Debate, Cross-Examination Debate, and Extemporaneous Speaking. Elective credit only.	03240800
<u>Instructional Material:</u> 1129 – Lincoln Douglas Debate: Values in Conflict, Perfection Learning Corporation, ISBN: 0931054613	Grade level: 10 – 12 Credit(s): 1
<u>Prerequisites:</u> Debate II	College Hour(s): NA
<u>What's Next?</u> Any offered elective	<b>Tier II</b>
Teachers with an emergent bilingual student enrolled in the course must be Speech and ESL certified.	
<b>DUAL CREDIT INDEPENDENT STUDY IN SPEECH T</b>	<b>3130 T</b>
<b>TCC Course: Public Speaking (SPCH 1315)</b>	
Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students speaking abilities, as well as ability to effectively evaluate oral presentations.	03241200 Grade level: NA ECHS: 9 - 12
<u>Instructional Material:</u> NA	Credit(s): 0.5
<u>FWISD &amp; TCC Prerequisites:</u> None	College Hour(s): 3 Hours
<u>What's Next?</u> NA	<b>Tier I</b>
Course taught by an approved adjunct instructor	

## COURSES FOR EMERGENT BILINGUAL (EB) STUDENTS

### Overview Information: High School

#### Introduction

The courses described in this section of the Course Catalog are those which Fort Worth ISD offers to address the needs of emergent bilingual (EB)\* students at various levels of English proficiency and academic need. The courses comply with state law requirements included in...

- 19 TAC Chapter 89: Bilingual/ESL program requirements and
- TAC Chapter 74.4: Curriculum Requirements, English Language Proficiency Standards

The Language Proficiency Assessment Committee (LPAC) at each campus is responsible for ensuring that all EBs are placed in appropriate programs and for monitoring student performance throughout the year.

### Key Information about FWISD Program Designs

Fort Worth ISD offers two broad types of programs for secondary EBs:

- Newcomer Program (includes INA, Success Day School, and Language Centers at Arlington Heights, Diamond Hill Jarvis, Polytechnic, O.D. Wyatt, Southwest, Western Hills, Eastern Hills, Paschal, Northside, South Hills, and Carter Riverside High Schools)

This program (sometimes referred to as the Language Center Program) is for recent-immigrant students within their first two (2) years in U.S. schools. The program provides specialized ESL/ESOL and reading courses, other English “support” courses, and sheltered core content-area courses in which extensive scaffolding and linguistic accommodations, as well as special materials, are used. Most students are at the beginning or intermediate levels of English proficiency. *Students identified as “Newcomers” shall be scheduled into an RLA double-block for ESOL I along with ELDA (first time taken). ESOL I may be substituted for English I, however it is imperative to recognize the critical processes and features of second language acquisition and to provide appropriate instruction to enable students to meet these standards.* Newcomer students may be scheduled in core courses identified as “sheltered” for Science, Math, and Social Studies. Sheltered courses may be “stacked” but should not exceed 28 students. The English Language Development & Acquisition (ELDA) course is only offered at designated campuses. All secondary campuses serving EBs shall offer sheltered courses or general core courses with built-in scaffolds and strategies to meet the language needs of EBs.

- ESL

These programs are for EB students who are not identified as Newcomers and have been in U.S. schools for 3+ years. Due to their time spent in U.S. schools, these students have reached a high enough level of language proficiency and academic achievement to be in mainstream classrooms with scaffolded supports to continue meeting their unique needs for language acquisition. EBs receiving ESL services may be scheduled in Sheltered courses that may comprise of Sheltered English and reading courses, as well as sheltered core content-area courses in which some degree of scaffolding and linguistic accommodations are provided. Most students demonstrate high intermediate to advanced levels of English proficiency. Students are to be cluster-scheduled into regular “stacked” content-area classes and identified according to the course numbers shown in this section of the course catalog. Sheltered courses are offered in some form on all campuses.

High School: At high school, the program is referred to as Transition English, and the ELA courses are called Sheltered English and Sheltered Reading; teachers teaching the courses must be ESL Certified.

**\*EB = Emergent bilingual** is a term used here to refer to students:

- who come from homes where languages other than English are used **and**
- who are assessed through state tests to be less than proficient in listening, speaking, reading **or** writing English.

**†Cluster-scheduled** = scheduling students in groups (not to exceed 50% of a class) into regular “stacked” classes, keeping the number of teachers assigned to the lowest number needed to provide quality programs. These instructional settings should not result in having clusters of EB students and clusters of special education students in the same classroom.

## Core Course Overview Chart

The following chart (1) shows the special ESOL, reading, and sheltered core courses that are offered for high school EBs and (2) provides essential information about instructional settings, teacher certification, and teacher training requirements. (Important definitions are also included at the bottom of the chart.)

### HIGH SCHOOL COURSES FOR EB STUDENTS

Newcomer Program Students			Transition English Students		
Course	#	Setting	Course	#	Setting
<b>ELA Courses</b>			<b>ELA Courses</b>		
EngSOL I	0541	Homogeneous within or across grades or in <u>clusters</u> with transition and/or regular program students	Sheltered English I	0546	Students to be scheduled in <u>clusters</u> with general education students
EngSOL II	0543		Sheltered English II	0548	
			Sheltered English III	0549	
<b>ELDA Courses</b>			<b>Reading Courses</b>		
ELDA1 (first time)	0570	Homogeneous within or across grades and only for students identified as Newcomer; must be paired with ESOL or Sheltered English.	Sheltered Rd I	3962	Students to be scheduled in <u>clusters</u> with general education students
ELDA2 (second time)	0571		Sheltered Rd II	3964	
<b>Math Courses</b>			<b>Math Courses</b>		
Sheltered Alg. I - NP	7043	Students to be scheduled in <u>clusters</u> with transition and/or regular program students (or to be homogeneously scheduled with other NP students if in the best interest of the students and numbers warrant)	Sheltered Algebra I	7048	Students to be scheduled in <u>clusters</u> with general education students
Sheltered Geo. - NP	7069		Sheltered Geometry	7070	
Sheltered Alg. II - NP	7068		Sheltered Algebra II	7060	
<b>Science Courses</b>			<b>Science Courses</b>		
Sheltered IPC - NP	7526	Students to be scheduled in <u>clusters</u> with transition and/or regular program students (or to be homogeneously scheduled with other NP students if in the best interest of the students and numbers warrant)	Sheltered IPC	7528	Students to be scheduled in <u>clusters</u> with general education students
Sheltered Bio. - NP	7573		Sheltered Biology	7575	
Sheltered Chem. - NP	7596		Sheltered Chemistry	7598	
<b>Social Studies Courses</b>			<b>Social Studies Courses</b>		
Sheltered W. Geo. - NP	8008	Students to be scheduled in <u>clusters</u> with transition and/or regular program students (or to be homogeneously scheduled with other NP students if in the best interest of the students and numbers warrant)	Sheltered W. Geo.	8010	Students to be scheduled in <u>clusters</u> with regular program students
Sheltered W. Hist. - NP	8027		Sheltered W. History	8029	
Sheltered US Hist. - NP	8050		Sheltered US History	8052	
<b>Note:</b>			<b>Note:</b>		
<ul style="list-style-type: none"> <li>• <b>All ELAR Newcomer program teacher(s) must be content and ESL certified</b></li> </ul>			<ul style="list-style-type: none"> <li>• English teacher(s) must be content certified with ESL.</li> <li>• Math, Science, and Social Studies teacher(s) must have annual EB instruction training as determined by the District.</li> </ul>		
<p>“Cluster-scheduled” = scheduling students in groups (not to exceed 50% of a class) into regular “stacked” classes, keeping the number of teachers assigned to the lowest number needed to provide quality programs. These instructional settings should not result in having clusters of EB students and clusters of special education students in the same classroom.</p>					

## Elective Course Overview Chart

The following chart shows ELA elective courses that are to be used in tandem with required ELA courses to address the language needs of EBs and support them toward graduation.

Newcomer Program Students			Transition English Students		
Course	Course #	Comments	Course	Course #	Comments
Communication Applications (for EB students)	3127T	Recommended for Grade 10	Communication Applications	3126T	LPACs should consider the language needs of the students and select this or other ELA elective courses when scheduling EBs identified as Transition English level into language support classes. (A few Transition English level EBs may benefit from participation in the courses offered for NP students.)
Practical Writing Skills (for EB students)	3140	Recommended for INA Spring enrollment and/or Summer (after Grade 9)			
Humanities NP (for EB students)	8054	Recommended for Summer (after Grade 10)			
American Cultures T	8038T	Recommended for INA Spring enrollment and/or Summer (after Grade 9)			
Public Speaking 1	3715AB	Recommended for Grade 9			

## Local Credit Course Overview Chart

The following chart shows local credit ELA and mathematics courses that are taken only by students at INA or Success Day Program who are identified by the campus LPAC as meeting emerging reader student criteria and are in their first two semesters of enrollment at INA or Success Day Program.

Course	
<u>ELA Courses</u>	
Introductory English for Speakers of Other Languages	0542
Introductory ESL Reading	3141
<u>Mathematics Course</u>	
Introductory Mathematics	7415

### Explanation: Recommended Course Sequence Charts for Newcomer Program Students

Immigrant students who are new to this country and who speak little/no English arrive at various points during the school year. These students may have varying levels of educational background, and, if they are high-school-age students, are often older for grade 9 placement. However, they may still have to be placed in grade 9 because they were not able to bring educational records with them, often due to disruptions in their home countries. Consequently, it is necessary to have specific, and different, course sequence arrangements for the students (according to their dates of entry into the U.S., their educational backgrounds, and their ages) so that campuses can provide the sequence of courses that best allows for language development and provides reasonable opportunity for graduation within four to five years (including summer).

*\*Contact Bilingual/ESL Department for course sequences for over-age and unschooled students.*

## Emergent Bilingual Students (EBs)

<p><b>INTRODUCTORY ENGLISH FOR SPEAKERS OF OTHER LANGUAGES AB</b></p> <p>This course is designated specifically for students enrolled at International Newcomer Academy (INA) or Success Day program who are identified as an emerging reader and/or identified as a SLIFE student in need of intensive instruction in basic literacy and in formal learning experiences to participate successfully in the sheltered EngSOL I course provided at INA/Success. Offered in combination with a second course (Introductory ESL/Reading), this course will focus on developing oral English skills, basic English literacy, general cognitive skills, and social/academic learning behaviors needed for success in U.S. school settings. This course will particularly emphasize the development of English writing skills in context with science, social studies, and ELA content.</p> <p><u>Instructional Material:</u> <i>No state adopted textbook/ Contact ESL Coordinator</i></p> <p><u>Prerequisites:</u> EB and immigrant status, first year of enrollment in FWISD; enrolled in International Newcomer Academy or Success Day program; identified as emerging reader and/or identified as a SLIFE student.</p> <p><u>What's Next?</u> 0541 AB English I for Speakers of Other Languages/NP I AB</p> <p>No credit toward graduation is earned for this course.</p> <p>Teachers teaching this course must be ELAR and ESL certified.</p>	<p><b>0542 AB</b></p> <p>84000032</p> <p>Grade level: 9 Credit(s): 1 (Local credit only) College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>ENGLISH I FOR SPEAKERS OF OTHER LANGUAGES AB</b></p> <p>This course is designed specifically for immigrant students who are beginning- or low-intermediate-level learners of English and who need intensive, focused instruction in English. (It is paired with ELDA I). The course is based on the ELAR TEKS included with the English I course and stresses development of English language proficiency and language learning skills, as well as introduction to American school expectations and American culture. Both reading and writing are integral parts of the course, with stress placed on writing skills and processes.</p> <p><u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 9 TX Std, ISBN 978126553593</i></p> <p><u>Prerequisites:</u> EB and immigrant status; enrollment in International Newcomer Academy, Success Day Program or Language Center</p> <p><u>What's Next?</u> Subsequent placement in EngSOL or Sheltered English courses depends upon performance of student on ELA EOC, TELPAS and on review and recommendation by LPAC.</p> <p>Teachers teaching this course must be ELAR &amp; ESL certified.</p> <p><b>Students will take English I EOC.</b></p>	<p><b>0541 AB</b> (req EOC test) <b>05415 AB</b> (spec ed service)</p> <p>03200600 (req EOC test) 03200605 (spec ed services)</p> <p>Grade level: 9 Credit(s): 1 College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>ENGLISH II FOR SPEAKERS OF OTHER LANGUAGES AB</b></p> <p>This course is designed specifically for immigrant students who are high intermediate-level learners of English. (It is one of four language-based courses offered in the Newcomer students in grade 10, with Communication Applications, Practical Writing, and Sheltered Reading NP II being the other three). The course is based upon the ELAR TEKS included with English II and stresses continued development of English language proficiency and language learning skills, especially in academic areas, interaction with a wide variety of written texts, and continued emphasis on student writing, especially in expository and persuasive modes.</p> <p><u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 10 TX Std, ISBN 9781950533299</i></p> <p><u>Prerequisites:</u> EB and immigrant status, enrollment in Success Day program or Language Center; completion of EngSOL 1 AB (NP) or equivalent credit upon entry from other country/district.</p> <p><u>What's Next?</u> Subsequent placement in Sheltered English or English courses depends upon performance of student on ELA EOC and on review and recommendation by LPAC.</p> <p>Teachers teaching this course must be ELAR and ESL certified.</p> <p><b>Students will take English II EOC.</b></p>	<p><b>0543 AB</b> (req EOC test) <b>05435 AB</b> (spec ed service)</p> <p>03200700 (req EOC test) 03200705 (spec ed services)</p> <p>Grade level: 10 Credit(s): 1 College Hour(s): NA</p> <p><b>Tier III</b></p>

<p><b>ENGLISH LANGUAGE DEVELOPMENT AND ACQUISITION (ELDA 1) AB</b></p> <p>The English Language Development and Acquisition (ELDA) course aligned with the TEKS in 19 TAC 128. is designed for newcomer beginning level English learners. The course should be taken concurrent with ESOL I classes for 9<sup>th</sup> graders as the course addresses the breadth of the English I TEKS that are not covered in the ESOL I TEKS. The course caters to the language proficiency needs of high school students. It focuses on developing foundational language skills, comprehension, response skills, genre understanding, author's purpose, composition, and inquiry skills.</p>	<p><b>0570 AB</b></p> <p>03200800</p> <p>Grade level: 9-12 Credit(s): 1 College Hour(s): NA</p>
<p><u>Instructional Material:</u> <i>District created curriculum</i></p> <p><u>Prerequisites:</u> Newcomer status, enrollment in International Newcomer Academy, Success Day program, or Language Center.</p> <p><u>What's Next?</u> Subsequent placement in ELDA 2 course pending student progress and performance on ELA EOC, TELPAS, and on review and recommendation by LPAC.</p>	<p><b>Tier III</b></p>
<p><b>ENGLISH LANGUAGE DEVELOPMENT AND ACQUISITION (ELDA 2) AB</b></p> <p>The English Language Development and Acquisition (ELDA) course aligned with the TEKS in 19 TAC 128. is designed for newcomer beginning level English learners. The course should be taken concurrent with ESOL II for 10<sup>th</sup> graders as the course addresses the breadth of the English II TEKS that are not covered in the ESOL II TEKS. The course caters to the language proficiency needs of high school students. It focuses on developing foundational language skills, comprehension, response skills, genre understanding, author's purpose, composition, and inquiry skills.</p>	<p><b>0571 AB</b></p> <p>03200810</p> <p>Grade level: 9-12 Credit(s): 1 College Hour(s): NA</p>
<p><u>Instructional Material:</u> <i>District created curriculum</i></p> <p><u>Prerequisites:</u> Newcomer status, enrollment in International Newcomer Academy, Success Day program, or Language Center.</p>	<p><b>Tier III</b></p>
<p><b>SHELTERED ENGLISH III AB</b> <b>ENGLISH III AB</b></p> <p>This course is designed for immigrant students who are advanced/advanced-high-level learners of English. It is offered for EB students in grade 11. The course is based on the ELAR TEKS included with the English III course and stresses academic English language development, refinement of language learning strategies, interaction with a wide variety of written texts, and continued emphasis on student writing, especially in analytical and persuasive modes. Emergent bilinguals (EBs) receive comprehensible grade-level content instruction taught using interactive instructional strategies with careful and consistent use of scaffolding and language support.</p>	<p><b>0544 AB</b> <b>30155 AB</b></p> <p>03220300 03220305</p> <p>Grade level: 11 Credit(s): 1 College Hour(s): NA</p>
<p><u>Instructional Material:</u> <i>McGraw Hill Study Sync, Grade 11 TX Std, ISBN 9780079071514</i></p> <p><u>Prerequisites:</u> EB and immigrant status, enrollment at Success or Language Center High Schools; completion of EngSOL II AB or equivalent credit upon entry from other country/district.</p> <p><u>What's Next?</u> NA</p> <p>Teachers teaching this class must be ELAR and ESL certified.</p>	<p><b>Tier III</b></p>
<p><b>INTRODUCTORY ESL READING AB</b></p> <p>This course is designed specifically for students enrolled at International Newcomer Academy (INA) or Success Day program who are identified as emerging reader and/or identified as a SLIFE student in need of intensive instruction in basic literacy and in formal learning experiences in order to participate successfully in the Reading 1A course provided at INA. Offered in combination with a second course (Introductory English for Speakers of Other Languages), this course will focus on developing oral English skills, basic English literacy, general cognitive skills, and social/academic learning behaviors needed for success in U.S. school settings. This course will particularly emphasize the development of English reading skills in context with science, social studies, and ELA content.</p>	<p><b>3141 AB</b></p> <p>84000033</p> <p>Grade level: 9 Credit(s): 1 local credit only College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><u>Instructional Material:</u> <i>Various Resources/No state-adopted textbook/Contact ESL Coordinator</i></p> <p><u>Prerequisites:</u> EB and immigrant status; first year of enrollment in FWISD; enrolled at International Newcomer Academy or Success Day program; identified as emerging reader and/or identified as a SLIFE student.</p> <p><u>What's Next?</u> 3942 AB - SHELTERED READING NP I AB</p> <p>No credit toward graduation is earned for this course.</p> <p>Teachers teaching this course must be ELAR and ESL certified.</p>	
<p><b>SHELTERED READING NP I AB</b></p> <p>This course is based upon ELAR TEKS with instruction scaffolded for EB students and provides reading instruction that stresses literacy development across content, enabling EB students to build academic English skills and learning strategies, and meet the reading objectives for ELA EOC.</p>	<p><b>3942 AB</b></p> <p>03270700</p>

<p><b>Instructional Material:</b> Textbooks provided by Literacy Director and/or ESL Coordinator, including Edge Level A, Achieve 3000 and other material as appropriate for students' levels of language proficiency.</p> <p><b>Prerequisites:</b> EB and immigrant status; enrollment in International Newcomer Academy, Success Day Program or Language Centers</p> <p><b>What's Next?</b> Subsequent placement in Sheltered Reading NP II AB depends upon performance of student on ELAR EOC and on review and recommendation by LPAC. Teachers teaching this course must be Reading and ESL certified.</p>	<p>Grade level: 9 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>SHELTERED READING NP II AB</b></p> <p>This course is based on ELAR TEKS with instruction scaffolded for EB students and continues to provide reading instruction that stresses literacy development across content areas. The course focuses on helping EB students extend their academic English language skills and use of learning strategies, analyze and evaluate various types of text, and acquire the ELAR reading TEKS.</p> <p><b>Instructional Material:</b> Textbooks provided by Literacy Director and/or ESL Coordinator, including Edge Level B, Achieve 3000 and other material as appropriate for students' levels of language proficiency.</p> <p><b>Prerequisites:</b> EB and immigrant status; enrollment in Success Day Program or Language Centers; completion of Sheltered Reading NP I</p> <p><b>What's Next?</b> Subsequent placement in Sheltered Reading NP III AB depends upon performance of student on ELA EOC and on review and recommendation by LPAC. Teachers teaching this course must be Reading and ESL certified.</p>	<p><b>3944 AB</b> 03270800  Grade level: 10 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HUMANITIES NP I AB</b></p> <p>This is an interdisciplinary course integrating the content of U.S. history from colonization through Reconstruction with literature and art from that era. As part of the course, students who are newly arrived to the U.S. and who did not receive instruction in early U.S. history in middle or elementary school, learn important concepts about that period of time and read and analyze related literature and art to increase understanding of important facts and develop appreciation of how writing and art reflect cultural views and attitudes. Students participate in discussions and oral presentations and read and write various types of text. The course is based on Humanities TEKS.</p> <p><b>Instructional Material:</b> No state adopted textbook/ contact content Director</p> <p><b>Prerequisites:</b> EB and immigrant status; completion either of one year of INA or Success Day program or one year as in Language Centers</p> <p><b>What's Next?</b> Subsequent placement in Sheltered U.S. History or U.S. History courses depends upon performance of student on ELA EOC and on review and recommendation by LPAC. Teachers teaching this course must be English and ESL certified. (State elective credit)</p>	<p><b>8054 AB</b> 03221600  Grade level: 10 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>INTRODUCTORY MATHEMATICS NP</b></p> <p>This course provides instruction for students who need additional study in computational skills before entering Algebra. This course includes operations with whole numbers, decimals, percent, and consumer applications. Units on measurement, statistical graphs, and geometry will be taught.</p> <p><b>Instructional Material:</b> Determined by INA/Success staff with support from Mathematics Director and ESL Coordinator</p> <p><b>Prerequisites:</b> EB and immigrant status; first year of enrollment in FWISD; enrolled at International Newcomer Academy or Success Day program; identified as emerging reader and/or identified as a SLIFE student.</p> <p><b>What's Next?</b> NA No credit is earned toward graduation for this course Teachers with an emergent bilingual enrolled in the course must be content and ESL certified.</p>	<p><b>7415 AB</b> NONE  Grade level: 9-12 Credit(s): 1 local credit only College Hour(s): NA <b>Tier III</b></p>
<p><b>PUBLIC SPEAKING I AB</b></p> <p>This course stresses basic oral communication processes/situational language, interpersonal communication strategies, skills in making formal/academic presentations, and strategies in analyzing and evaluating spoken language. The course is based on the TEKS.</p> <p><b>Instructional Material:</b> No state adopted textbook/contact ESL Coordinator</p> <p><b>Prerequisites:</b> EB and immigrant status; enrollment in International Newcomer Academy, Success Day program or Language Center Grade 9</p> <p><b>What's Next?</b> Subsequent placement in Communication Applications T (for ESL Students) or Professional Communications for students seeking a CTE pathway depends upon performance of student on ELA EOC and on review and recommendation by LPAC. Teachers teaching this course must be Speech and ESL certified. Meets state requirement for Speech for ESL students. Teachers with an emergent bilingual enrolled in the course must be Speech and ESL certified.</p>	<p><b>3712 AB</b> 03240900  Grade level: 9 Credit(s): 0.5-1.0 College Hour(s): NA <b>Tier III</b></p>



<b>COMMUNICATION APPLICATIONS T</b>	<b>3127 T</b>
This course extends oral interaction skills and stresses communication in professional/social contexts, including levels and appropriateness of language, etiquette and protocol in specific situations, group roles, leadership, and preparation/analysis/evaluation of formal presentations. The course is based on the TEKS.	03241400
<u>Instructional Material:</u> 1102 - <i>Communication Works! McGraw-Hill School Division, ISBN: 0658002996</i>	Grade level: 10-11
<u>Prerequisites:</u> EB and immigrant status; enrollment in Success Day program or Language Centers	Credit(s): 0.5
<u>What's Next?</u> Subsequent placement in Practical Writing Skills IAB (for ESL students) depends on performance of student on ELA EOC and on review and recommendation by LPAC.	College Hour(s): NA
Teachers teaching this course must be Speech and ESL certified.	<b>Tier III</b>
Meets state requirement for Speech for ESL students.	
<b>PRACTICAL WRITING SKILLS AB</b>	<b>3140 AB</b>
This course stresses writing needed in work and daily life situations, editing strategies for improving content and conventions, overall writing processes, and strategies for evaluating effectiveness of their own and others' writing. This course is based on the TEKS.	03221300
<u>Instructional Material:</u> <i>No state adopted textbook/Contact ESL Coordinator</i>	Grade level: 10-11
<u>Prerequisites:</u> EB and immigrant status; enrollment in Success Day program or Language Centers	Credit(s): 1
<u>What's Next?</u> Subsequent placement depends upon performance of student on ELA EOC and on review and recommendation by LPAC.	College Hour(s): NA
Teachers teaching this course must be ELAR and ESL certified.	<b>Tier III</b>
<b>AMERICAN CULTURES STUDY</b>	<b>8038 T</b>
This course provides an opportunity for an in-depth examination of various cultural or ethnic groups in the United States. The course is designed to develop English language skills, appreciation and respect for cultural diversity and the contributions made by various groups to the American landscape while incorporating the skills and content understanding needed by students to be successful on the US History EOC. This course is based on the TEKS.	03380002
<u>Instructional Material:</u> <i>No state adopted textbook/ contact ESL Coordinator</i>	Grade level: 9-10
<u>Prerequisites:</u> World History Studies I or World Geography Studies I; teacher recommendation; parental approval; student interest	Credit(s): 0.5
<u>What's Next?</u> Subsequent placement in Sheltered World History AB (for EB students)	College Hour(s): NA
<i>Teachers teaching this course must be secondary Social Studies certified.</i>	<b>Tier III</b>
Note: Special topics in Social Studies may be repeated with different topics for up to two (2) state elective credits.	

PEIMS NUMBERS	COURSE TITLE	SHORT TITLE	CREDIT
03380002	Special Topics in Social Studies (1st time taken)	(SPTSS)	0.5
03380022	Special Topics in Social Studies (2nd time taken)	(SPTSS2)	0.5
03380032	Special Topics in Social Studies (3rd time taken)	(SPTSS3)	0.5
03380042	Special Topics in Social Studies (4th time taken)	(SPTSS4)	0.5

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# ***MATHEMATICS***

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# MATHEMATICS GRADUATION REQUIREMENTS

**ALL STUDENTS ARE REQUIRED to take Algebra I (EOC) & Geometry**

## FOUNDATION PLANS

Foundation Plan:	Foundation Plan w/ Endorsements:	Distinguished Level of Achievement:
<ul style="list-style-type: none"> <li>• 22 credits</li> <li>• Requires only <b>3 math credits</b></li> </ul>	<ul style="list-style-type: none"> <li>• 26 credits</li> <li>• Requires <b>4 math credits</b></li> </ul>	<ul style="list-style-type: none"> <li>• 26 credits</li> <li>• Requires <b>4 math credits</b></li> <li>• Requires <b>Algebra II</b></li> </ul>

The **3<sup>rd</sup> Math credit** is subject to prerequisite requirements.

The **3<sup>rd</sup> Math credit** options:

- Algebra II
- Math Models w/ Applications
- Robotics Programming & Design
- Digital Electronics
- Math Apps in Ag, Food, & Natural Resources
- Accounting II
- Robotics II
- Financial Mathematics
- Applied Mathematics for Technical Professionals
- Manufacturing Engineering Technology II

**Math Models and Algebra II can be taken concurrently.**

- **Math Models** counts as the **3<sup>rd</sup> math credit**
- **Algebra II** counts as the **4<sup>th</sup> math credit**

The **4<sup>th</sup> Math credit** may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements.

The **4<sup>th</sup> Math credit** options:

- Algebra II
- DC College Algebra
- OnRamps College Algebra
- Precalculus
- DC Pre-Calculus Math
- OnRamps Pre-Calculus
- AP Pre-Calculus
- Statistics
- AP Statistics
- DC Statistics
- OnRamps Statistics
- Algebraic Reasoning
- Independent Study in Mathematics
- Adv Quantitative Reasoning
- Engineering Mathematics
- Statistics & Business Decision Making
- Mathematics for Medical Professionals
- Discrete Math for Computer Science
- Discrete Math for Problem Solving
- DC Multivariable Calculus
- AP Calculus AB or BC
- DC Calculus AB or BC
- AP Computer Science A
- College Preparatory Math
- DC Linear Algebra
- DC Differential Equations
- DC Differential Equations and Linear Algebra

# Mathematics

## Mathematics Recommended Course Sequence and Testing Guide

	Traditional		Advanced		Accelerated	
<b>6th</b>	Gr 6 Math: 0200	STAAR Gr 6	Advanced Gr 6 Math: 0204	STAAR Gr 6	Accelerated Gr 6 Math: 0205	STAAR Gr 8
<b>7th</b>	Gr 7 Math: 0202	STAAR Gr 7	Advanced Gr 7 Math: 0207	STAAR Gr 8	Honors Algebra I: 7055	Alg I EOC
<b>8th</b>	Gr 8 Math: 0203	STAAR Gr 8	Honors Algebra I: 7055	Alg I EOC	Honors Geometry: 7073	STAAR Gr 8
<b>9th</b>	Algebra I: 7051	Alg I EOC	Honors Geometry: 7073	PSAT	Honors Algebra II: 7057 or OnRamps College Alg: 7050	PSAT
<b>10th</b>	Geometry: 7071	PSAT	Honors Algebra II: 7057 or OnRamps College Alg: 7050	PSAT	Honors Precalculus: 7123 AP Precalculus 7140AB; OR OnRamps Precalculus: 7119	PSAT SAT, ACT TSI
<b>11th</b>	Algebra II: 7053	ACT SAT TSI	Honors Precalculus: 7123 AP Precalculus 7140AB; OR OnRamps Precalculus: 7119	ACT SAT TSI	AP/DC/OnRamps Math Electives or Ind Study	SAT ACT TSI
<b>12th</b>	4th Math or CTE Equivalent	ACT SAT TSI	AP/DC/OnRamps Math Electives or Ind Study	Exams vary by course	AP/DC/OnRamps Math Electives or Ind Study	Exams vary by course

<b>ALGEBRA I AB</b>	<b>7051 AB</b>
<b>SHELTERED ALGEBRA I AB – NP</b>	<b>7043 AB</b>
<b>SHELTERED ALGEBRA I AB</b>	<b>7048 AB</b>
<b>ALGEBRA I AB</b>	<b>70515 AB</b>

Students will study linear, quadratic, and exponential functions and their transformations, equations, and associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences and laws of exponents. **Algebra I is required for graduation.** 03100500

Instructional Material: 1521 – Algebra 1 Texas Hybrid Consumable Student Resource, Houghton Mifflin Harcourt; ISBN: 9780544555730  
Prerequisites: Mathematics, Grade 8 or its equivalent  
What's Next? Geometry or Honors Geometry  
*Students will take the Algebra I EOC.*  
 All Newcomer Program teachers must be content and ESL certified. Grade level: 9  
 Credit(s): 1  
 College Hour(s): NA  
**Tier III**

<b>HONORS ALGEBRA I AB</b>	<b>7055 AB</b>
<b>SHELTERED HONORS ALGEBRA I AB</b>	<b>7047 AB</b>

Extends and builds on the foundation for the Advanced Placement program. Includes all of the regular Algebra I course with extensions, both independent and guided, in the application of algebraic concepts, the analysis of historical development of algebra, and the relationships of the major ideas of algebra and geometry. 03100500  
**Algebra I is required for graduation.**

Instructional Material: XXXX-SpringBoard Algebra 1, CollegeBoard; ISBN: 9781457300394  
Prerequisites: Mathematics, Grade 8 or its equivalent and student interest  
What's Next? Geometry or Honors Geometry  
*Course taught by a locally certified gifted teacher or AP trained teacher.*  
*Students will take the Algebra I EOC.* Grade level: 9  
 Credit(s): 1  
 College Hour(s): NA  
**Tier II**

<b>PROBLEM SOLVING IN MATHEMATICS AB</b>	<b>7056 AB</b>
Provides instruction for students who need additional problem-solving strategies. Basic operations with real numbers, number concepts, algebraic relations, geometric properties, measurement, estimation, solution strategies, mathematical representations and reasonableness of problem situations will be included in this course. Students must complete the three state-required credits in mathematics for graduation. Local credit only, does not count toward graduation requirements.	N/A Grade level: 9 – 12 Credit(s): N/A
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Local credit only/Contact Mathematics Director</i>	College Hour(s): NA
<u>Prerequisites:</u> None	<b>Tier III</b>
<i>Local credit only, does not count toward graduation requirements.</i>	
<b>GEOMETRY I AB</b>	<b>7071 AB</b>
<b>SHELTERED GEOMETRY I AB – NP</b>	<b>7069 AB</b>
<b>SHELTERED GEOMETRY I AB</b>	<b>7070 AB</b>
<b>GEOMETRY I AB</b>	<b>70715 AB</b>
Students will begin to focus on more precise terminology, symbolic representation, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical arguments and constructions; proof and congruence; similarity, proof and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I to Geometry through the coordinate and transformational geometry strand. <b>Geometry is required for graduation.</b>	03100700 Grade level: 9 - 10
<u>Instructional Material:</u> <i>1534 - Geometry Texas Hybrid Consumable Student Resource, Houghton Mifflin Harcourt; ISBN: 9780544555990</i>	Credit(s): 1
<u>Prerequisites:</u> Algebra I or Honors Algebra I	College Hour(s): NA
<u>What's Next?</u> Algebra II or Honors Algebra II	<b>Tier III</b>
All Newcomer Program teachers must be content and ESL certified.	
<b>HONORS GEOMETRY AB</b>	<b>7073 AB</b>
<b>SHELTERED HONORS GEOMETRY AB</b>	<b>7074 AB</b>
Extends and builds on the foundation for the Advanced Placement program. Includes all of regular geometry course with extensions, both independent and guided, from advanced topics. Instruction focuses on the use of higher levels of understanding, such as relationships of ideas, analysis of investigations, and prediction of results.	03100700 Grade level: 9 – 10
<b>Geometry is required for graduation.</b>	Credit(s): 1
<u>Instructional Material:</u> <i>SpringBoard Geometry, CollegeBoard; ISBN: 9781457300400</i>	College Hour(s): NA
<u>Prerequisites:</u> Algebra I or Honors Algebra I and student interest	<b>Tier II</b>
<u>What's Next?</u> Algebra II or Honors Algebra II	
<i>Course taught by a locally certified gifted teacher or AP trained teacher.</i>	
<b>MATHEMATICAL MODELS WITH APPLICATIONS I AB</b>	<b>7052 AB</b>
This mathematics course provides a path for students to succeed in Algebra II and prepares them for post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to apply their mathematical knowledge. This course can be taken concurrently with Geometry or with Algebra II. This course can count as the third math credit.	03102400 Grade level: 10 – 12 Credit(s): 1
<u>Instructional Material:</u> <i>1523 - Math Models with Applications, Pearson; ISBN: 9781269888738</i>	College Hour(s): NA
<u>Prerequisites:</u> Algebra I	<b>Tier III</b>
<u>What's Next?</u> Algebra II	
<b>COLLEGE PREPARATORY MATH I (DEVELOPMENTAL MATH) - BEGINNING ALGEBRA (MATH 0361)</b>	<b>7040 A CP</b>
<b>COLLEGE PREPARATORY MATH II (DEVELOPMENTAL MATH) - INTERMEDIATE ALGEBRA (MATH 0362)</b>	<b>7040 B CP</b>
This is a College Preparatory course intended to help students hone their skills prior to taking the TSIA college placement exam.	CP111200
<u>Instructional Material:</u> McGraw Hill; <i>Beginning and Intermediate Algebra with POWER and ALEKS</i> ; Messersmith	Grade level: 11-12
<u>Prerequisites:</u> Students who have not yet met college readiness standards, but have completed three credits in math.	Credit(s): 1
<u>What's Next?</u> N/A	College Hour(s): N/A
<i>Credits may or may not be available to count toward graduation. Students on the Foundation HS Plan may earn advanced mathematics credit for a Math College Preparatory course (both semesters are required) only if the student has already completed the three previous mathematics credit requirements for the Foundation Program prior to taking these courses.</i>	<b>Tier III</b>
<ul style="list-style-type: none"> <li>This course is a preparation course for success on TSIA and will no longer provide exemption at TCCD.</li> <li>In accordance with TAC, §74.26, students may be awarded a half credit for successful completion of half of the college preparatory mathematics course. This half credit, when paired with another half credit from the list of allowable advanced mathematics courses, may satisfy the advanced mathematics requirement for students pursuing an endorsement.</li> </ul>	

These College Preparatory courses are developmental courses and will not provide any dual credit.

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College Preparatory Math information:

- Districts are required to offer a full year of CP Math (unlike English where TEA states that a district can offer .5 or 1 credit of CP English).
- Students must be enrolled in the full credit course.
- If a student only passes one semester, credit is awarded for that one semester.
- The student can then combine that one semester with a semester from a different course (including AQR).
- The student needs a full year of CP math in order to enroll in a credit-bearing math course at TCC.

See the decision-point situations listed below that a student should consider in determining if this course will provide the benefits he/she needs.

1. If the student has not passed Algebra I EOC, then complete all coursework in HS needed to pass the EOC exam. Students who have not passed the Algebra I EOC can be scheduled into the course for their senior year if they have received three credits in math.
2. Students on the Foundation HS Program may earn advanced mathematics credit for a Math College Preparatory course (both semesters required=1 credit) only if the student has already completed the three previous mathematics credit requirements for the Foundation Program prior to taking this class.
3. This course is to be taught on a high school campus, but may not be available at all high school campuses. Availability of the high school classes will be based on student's requests.
4. NCAA does not recognize College Preparatory Mathematics as a 4<sup>th</sup> year math course. If a student has the potential of attending a Division 1 or Division 2 school that is governed by NCAA, please contact the content Director for scheduling assistance.

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**Texas College Bridge Math (Online)\***

**9006T**

This is a College Preparatory course intended to help students be successful on TSIA and to hone their skills prior to taking collegiate level mathematics. Students are scheduled in this course during a zero hour.

CP111200

Instructional Material: *Texas College Bridge stipulates the resources and requires teacher training*

Prerequisites: Students who have not yet met college readiness standards, but have completed three credits in math.

What's Next? N/A

- If students are taking this course as a stand-alone course, then they will need to be scheduled into a zero hour or 9<sup>th</sup> hour course.
- This course can only be paired with College Preparatory Math if it is to be taken during the school day.
- For instances where a 12<sup>th</sup> grade student is attending a Division 1 or Division 2 school that is governed by NCAA, please contact the content Director for scheduling assistance.

Grade level: 11-12  
(NOTE: Starting with the class of 2026, TCB taken in the Junior year will not count as a CCMR indicator.)

Credit(s): 1.0  
College Hour(s): N/A

**Tier III**

\*This course counts for elective credit only

In accordance with TAC, §74.26, students may be awarded a half credit for successful completion of half of the college preparatory mathematics course. This half credit, when paired with another half credit from the list of allowable advanced mathematics courses, may satisfy the advanced mathematics requirement for students pursuing an endorsement.

- This course is a preparation course for success in collegiate level mathematics and will provide exemption at Higher Ed Institutions that partner with Texas College Bridge.
- Students will receive a certificate of completion upon finishing both Stage 1 and Stage 2 to share with colleges or universities that partner with Texas College Bridge and the student intends to enroll.

These College Preparatory courses are developmental courses and will not provide any dual credit. See the decision-point situations listed below that a student should consider in determining if this course will provide the benefits he/she needs.

1. If the student is not enrolled in a program that offers a certification/licensure.
2. If the student is not within 3 college credit hours in Math/English or 9 college credit hours in other.
3. If student is not enrolled in a Dual Credit, IB, AP, nor OnRamps Course or if student grades and/or test scores are not aligned with success for the student enrolled in the course.
4. If student intends to enlist in the military and no other CCMR pathway is assigned.
5. If student is not enrolled in any CCMR course or programs.
6. If student wants to participate in the program for TSIA prep or other reasons.

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**ALGEBRA II AB**

**7053 AB**

**SHELTERED ALGEBRA II AB – NP**

**7068 AB**

**SHELTERED ALGEBRA II AB**

**7060 AB**

**ALGEBRA II AB**

**70535 AB**

Students build on their previous algebraic skills. Students will broaden their knowledge of quadratic functions and exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations, inverses in both mathematical and real-world situations.

03100600

Grade level: 9 - 12

Credit(s): 1

Instructional Material: *1526 -Algebra 2 Texas Hybrid Consumable Student Resource, Houghton Mifflin Harcourt; ISBN: 9780544556201*

Prerequisites: Algebra I or Honors Algebra I

Recommended Prerequisites: Geometry, or Honors Geometry

College Hour(s): NA

**Tier III**

What's Next? Precalculus or Honors Precalculus

All Newcomer Program teachers must be content and ESL certified.

**HONORS ALGEBRA II AB**

**7057 AB**

**SHELTERED HONORS ALGEBRA II AB**

**7075 AB**

Extends and builds on the foundation for the Advanced Placement program. Includes the entire regular Algebra II course with extensions, both independent and guided, in the areas of probability, trigonometry functions, triangle problems, and arithmetic sequences and series with emphasis on real-world situations.

03100600

Grade level: 9 - 12

Instructional Material: XXXX-SpringBoard Algebra 2, CollegeBoard; ISBN: 9781457300417

Credit(s): 1

Prerequisites: Algebra I, Honors Algebra I, and student interest

College Hour(s): NA

Recommended Prerequisites: Geometry, or Honors Geometry

**Tier II**

What's Next? Precalculus or Honors Precalculus

**OnRamps College Algebra AB**

**7050 AB**

In this course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. OnRamps works through a dual enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.

03100600

Grade level: 9 – 12

Credit(s): 1

College Hour(s): 3 hours

**Tier I**

**NOTE: This course provides the same credit as Algebra II or Honors Algebra II.**

Instructional Material: Selected and provided by the University of Texas at Austin

Prerequisites: Algebra 1

Recommended Prerequisites: Geometry

What's Next? N/A

**PRECALCULUS I AB**

**7121 AB**

Precalculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at high levels in both mathematical and real-world situations. This course provides the necessary foundation for advanced placement or college calculus.

03101100

Grade level: 10 - 12

Instructional Material: 1549 SpringBoard Precalculus, CollegeBoard; ISBN: 9781457300424

Credit(s): 1

Prerequisites: Algebra I or Honors Algebra I, Geometry or Honors Geometry and Algebra II or Honors Algebra II

College Hour(s): NA

What's Next? AP Calculus AB or AP Statistics

**Tier III**

**HONORS PRECALCULUS I AB**

**7123 AB**

**SHELTERED HONORS PRECALCULUS I AB**

**7118 AB**

Extends and builds on the foundation for the Advanced Placement program. Includes the entire regular Precalculus course with extensions, both guided and independent, in the areas of symbolic logic, linear programming, and applications of polar coordinates, and topics from discrete mathematics. This course provides the necessary foundation for advanced placement or college calculus

03101100

Grade level: 10 – 12

Credit(s): 1

Instructional Material: 1549 SpringBoard Precalculus, CollegeBoard; ISBN: 9781457300424

College Hour(s): NA

Prerequisites: Algebra I or Honors Algebra I, Geometry or Honors Geometry and Algebra II or Honors Algebra II

**Tier II**

What's Next? AP Calculus AB or AP Statistics

**DUAL CREDIT PRECALCULUS I A**

**7122 A**

**TCC Course: College Algebra (MATH 1314)**

**TWU Course: Precalculus (MAT 1302)**

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

03101100

Computer software materials fee charged for some sections.

Instructional Material: N/A

Grade level: 11 – 12

FWISD Prerequisites: Algebra II and Geometry or Honors Algebra II and Honors Geometry

Credit(s): 0.5

TCC Prerequisites: TSI compliant in mathematics

TWU Prerequisites: Only offered at Dunbar

College Hour(s): 3 hours

Early College High School Grade Placement: 9 -12

**Tier I**

What's Next? MATH 2412

*Course taught by an approved adjunct instructor*

**DUAL CREDIT PRECALCULUS I B**

**7120 B**

**TCC Course: PreCalculus Math (MATH 2412)**

**TWU Course: Precalculus (MAT 1303)**

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Includes the study of elementary functions, both algebraic and trigonometric, their graphs and applications. These functions include polynomial, rational, exponential, logarithmic and trigonometric. This is a regular college-level Precalculus course in which dual credit will be awarded for college Precalculus and high school Precalculus B.

03101100

Grade level: 11 – 12

Credit(s): 0.5

College Hour(s): 4 hours

Instructional Material: N/A

**Tier I**

FWISD & TCC Prerequisites: MATH-1314 or MATH-1316 with a minimum grade of C

TWU Prerequisites: MAT 1302; Only offered at Dunbar

Early College High School Grade Placement: 9 - 12

What's Next? MATH 2413

Course taught by an approved adjunct instructor.

**OnRamps PRECALCULUS I AB**

**7119 AB**

Students will deepen and extend their knowledge of functions, graphs and equations from their high school Algebra and Geometry courses so they can successfully work on concepts in a rigorous university-level calculus course. An emphasis on unpacking mathematical definitions and making logical arguments will empower students to develop their problem-solving skills and create connections to prior concepts. OnRamps works through a dual enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.

03101100

Grade level: 11-12

Credit(s): 1

College Hour(s): 3 hours

**Tier I**

Instructional Material: Selected and provided by University of Texas at Austin

Prerequisites: Algebra II, Geometry

What's Next? AP Calculus AB or Dual Credit AP Calculus AB (TSI compliant in mathematics)

**AP PRECALCULUS I AB**

**7140AB**

AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. Furthermore, as AP Precalculus may be the last mathematics course of a student's secondary education, the course is structured to provide a coherent capstone experience rather than exclusively focusing on preparation for future courses.

03100100

Grade level: 11-12

Credit(s): 1

College Hour(s): 3 hours

**Tier I**

Instructional Material: 1549 SpringBoard Precalculus, CollegeBoard; ISBN: 9781457300424 or adopted resource/curriculum

Prerequisites: Algebra II or Honors Algebra II

What's Next? AP Calculus AB or Dual Credit AP Calculus AB (TSI compliant in mathematics)

**AP CALCULUS AB AB**

**7124 AB**

Prepares eligible students for the Calculus AB Advanced Placement Examination given by the College Entrance Examination Board

A3100101

Grade level: 11 - 12

Credit(s): 1

College Hour(s): NA

**Tier I**

Instructional Material: 1550 - AP Calculus 1st Edition, Pearson Briggs; ISBN: 9780133498356

Prerequisites: Precalculus, or Honors Precalculus and student interest

What's Next? AP Calculus BC or AP Statistics

**DUAL CREDIT AP CALCULUS AB AB**

**7125 AB**

**TCC Course: Calculus I (MATH 2413)**

Limits and continuity; the fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

A3100101

Grade level: 11 – 12

Credit(s): 1

College Hour(s): 4 hours

**Tier I**

Instructional Material: N/A

FWISD & TCC Prerequisites: MATH-2412 with a minimum grade of C

Early College High School Grade Placement: 10-12

What's Next? MATH 2414

Course taught by an approved adjunct instructor

**AP CALCULUS BC AB**

**7126 AB**

Prepares eligible students for the Calculus BC Advanced Placement Examination given by the College Entrance Examination Board.

A3100102

Grade level: 11 - 12

Credit(s): 1

College Hour(s): NA

**Tier I**

Instructional Material: 1550 - AP Calculus 1st Edition, Pearson Briggs; ISBN: 9780133498356

Prerequisites: Precalculus, or Honors Precalculus and student interest (AP Calculus AB Recommended)

What's Next? Ordinary Differential Equations or Multivariable Calculus or AP Statistics

**DUAL CREDIT AP CALCULUS BC AB**

**7127 AB**

**TCC Course: Calculus II (Math 2414)**

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

A3100102

Grade level: 11 - 12

Credit(s): 1

College Hour(s): 4 hours

**Tier I**

Instructional Material: TCC Course: Calculus II (Math 2414)

FWISD & TCC Prerequisites: MATH-2413 with a minimum grade of C

Early College High School Grade Placement: 10-12

What's Next? N/A

Course taught by an approved adjunct instructor

**ADVANCED QUANTITATIVE REASONING AB**

**7132 AB**

Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry and discrete mathematics. Both semesters must be taken for this course to qualify as a fourth-year mathematics graduation credit.

03102510

Grade level: 12

Credit(s): 1

College Hour(s): NA

**Tier III**

Instructional Material: XXXX - Advanced Quantitative Reasoning, AQR Press; ISBN: 9781631300004

Prerequisites: Geometry or Honors Geometry and Algebra II or Honors Algebra II



What's Next? N/A

**DUAL CREDIT ADVANCED QUANTATIVE REASONING AB**

**7138 AB**

**TCC Course: Mathematics for Business & Social Sciences I (MATH 1324)**

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

03102510

Grade level: 9 - 12

Credit(s): 0.5 - 1

Instructional Material: TCC Course: Math 1324

College Hour(s): 3

Prerequisites: Geometry or Honors Geometry and Algebra II or Honors Algebra II

**Tier I**

FWISD & TCC Prerequisites: TSI Met in Algebraic Math pathway

Early College High School Grade Placement: 9-12

What's Next? N/A

**ALGEBRAIC REASONING AB**

**7134 AB**

Students taking this course will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

03102540

Grade level: 12

Credit(s): 1

College Hour(s): NA

Instructional Material: *Consenza & Associates ISBN: 9780988679696*

**Tier III**

Prerequisites: Algebra I and student interest

What's Next? N/A

**STATISTICS AB**

**7144 AB**

Students taking this course will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

03102530

Grade level: 12

Credit(s): 1

College Hour(s): NA

Instructional Material: *Bedford, Freeman, & Worth ISBN: 1464122164 and e-text: ISBN 1319124518*

**Tier III**

Prerequisites: Algebra I and student interest

What's Next? N/A

**AP STATISTICS AB**

**7145 AB**

Introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, planning a study, anticipating patterns in advance, and statistical inference. This course is equivalent to an introductory, non-calculus based, college course in statistics.

A3100200

Grade level: 9 - 12

Credit(s): 1

Instructional Material: *1552 - Practice of Statistics, Bedford, Freeman and Worth Publishing Group; ISBN: 9781464170770*

College Hour(s): NA

**Tier I**

Prerequisites: Geometry or Honors Geometry, and Algebra II or Honors Algebra II; and student interest

What's Next? AP Calculus AB

**OnRamps STATISTICS AB**

**7146 AB**

This course develops the quantitative reasoning skills and habits of mind. It will target conceptual understandings and hone highly relevant mathematical skills through scaffolded introduction to statistical methodologies, informal game play, and strategic lab exercise that engage students in hands-on analysis of real data. Valuable programming and coding skills will be acquired as a means for conducting these analyses. OnRamps works through a dual enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.

A3100200

Grade level: 11-12

Credit(s): 1

College Hour(s): 3 hours

Instructional Material: Selected and provided by the University of Texas at Austin

**Tier I**

Prerequisites: Algebra I or Honors Algebra 1; Geometry and Algebra II are preferred

What's Next? N/A

**INTRODUCTORY MATHEMATICS AB**

**7415 AB**

This course provides instruction for students who need additional study in computational skills before entering Algebra. This course includes operations with whole numbers, decimals, percent, and consumer application Algebra I. Recommended: Algebra II ns. Units on measurement, statistical graphs, and geometry will be taught. No credit is earned toward graduation for this course.

N/A

Grade level: 9 - 12

Credit(s): N/A

Instructional Material:

College Hour(s): NA

Prerequisites: Must be International Newcomer Academy student

**Tier III**

What's Next? N/A

<b>TEXAS PREFRESHMAN ENGINEERING PROGRAM I AB</b>	<b>7421 AB</b>
Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.	N1303752 Grade level: 9 - 11 Credit(s): 1 College Hour(s): 4 hours <b>Tier III</b>
<i>Instructional Material:</i> Textbook(s) and materials provided by the participating university	
<i>Prerequisites:</i> Average of 80 or higher in college preparatory mathematics course; teacher recommendation	
<b>TEXAS PREFRESHMAN ENGINEERING PROGRAM II AB</b>	<b>7423 AB</b>
Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.	N1303753 Grade level: 9 - 11 Credit(s): 1 College Hour(s): 4 hours <b>Tier III</b>
<i>Instructional Material:</i> Textbook(s) and materials provided by the participating university	
<i>Prerequisites:</i> Average of 80 or higher in college preparatory mathematics course; teacher recommendation	
<i>What's Next?</i> N/A	
<b>TEXAS PREFRESHMAN ENGINEERING PROGRAM III AB</b>	<b>7425 AB</b>
Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.	N1303754 Grade level: 9 - 11 Credit(s): 1 College Hour(s): 4 hours <b>Tier III</b>
<i>Instructional Material:</i> Textbook(s) and materials provided by the participating university	
<i>Prerequisites:</i> Average of 80 or higher in college preparatory mathematics course; teacher recommendation	
<b>TEXAS PREFRESHMAN ENGINEERING PROGRAM IV AB</b>	<b>7427 AB</b>
Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.	N1303755 Grade level: 9 - 11 Credit(s): 1 College Hour(s): 4 hours <b>Tier III</b>
<i>Instructional Material:</i> Textbook(s) and materials provided by the participating university	
<i>Prerequisites:</i> Average of 80 or higher in college preparatory mathematics course; teacher recommendation	
<i>What's Next?</i> N/A	
<b>INDEPENDENT STUDY IN MATH DAP: HONORS MULTIVARIABLE CALCULUS AND ITS APPLICATIONS AB</b>	<b>7128 AB</b>
This third course of calculus will use all of the skills and concepts learned in the previous two courses to analyze and explore problems requiring multi-variables. Essential for students planning to study advanced physical sciences and/or mathematics in college.	031025##
<i>Instructional Material:</i> XXXX - <i>Multivariable Calculus 1st Edition, Pearson Briggs; ISBN: 9780321965158</i>	Grade level: 12
<i>Prerequisites:</i> Concurrent enrollment or completion of AP Calculus BC	Credit(s): 1
<i>What's Next?</i> N/A	College Hour(s): NA
031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=02 Course taught by locally certified gifted teacher.	<b>Tier I</b>
<b>DUAL CREDIT MULTIVARIABLE CALCULUS AND ITS APPLICATIONS AB</b>	<b>7133 AB</b>
<b>TCC Course: Calculus III (Math 2415)</b>	
Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem.	031025## Grade level: HS: 11-12
<i>Instructional Material:</i> N/A	ECHS: 11 - 12
<i>FWISD &amp; TCC Prerequisites:</i> MATH-2414 with a minimum grade of C	Credit(s): 1
<i>What's Next?</i> N/A	College Hour(s): 4 hours
031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=02.	<b>Tier I</b>
Course taught by an approved adjunct instructor.	
<b>INDEPENDENT STUDY IN MATH DAP: HONORS ORDINARY DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS AB</b>	<b>7129 AB</b>
Provides instruction in the concepts and skills associated with differential equations including solving first-order differential equations, linear differential equations, higher- order linear differential equations, first-order systems, homogeneous and non-homogeneous systems, and real-world problems as found in the physical science.	031025## Grade level: 12 Credit(s): 1 College Hour(s): NA

<p><u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Mathematics Director</p> <p><u>Prerequisites:</u> AP Calculus BC or concurrent enrollment and student interest</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=03</p> <p>Course taught by a locally certified gifted teacher.</p>	<b>Tier I</b>
<p><b>DUAL CREDIT ORDINARY DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS A</b></p> <p><b>TCC Course: Differential Equations (MATH 2320)</b></p>	<b>7135 A</b>
<p>Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems. This is a regular college-level Differential Equations course in which dual credit will be awarded for Differential Equations and high school Ordinary Differential Equations A.</p>	031025##
<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD &amp; TCC Prerequisites:</u> MATH-2414 with minimum grade of C</p> <p><u>Early College High School Grade Placement:</u> 11-12</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=04 Course taught by an approved adjunct instructor.</p>	<p>Grade level: 11-12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 3 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT ORDINARY DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS B</b></p> <p><b>TCC Course: Differential Equations and Linear Algebra (MATH 2421)</b></p>	<b>7135 B</b>
<p>This course emphasizes solution techniques. Ordinary differential equations, vector spaces, linear transformations, matrix/vector algebra, eigenvectors, Laplace Transforms and systems of equations. This is a regular college-level Differential Equations and Linear Algebra course in which dual credit will be awarded for Differential Equations and Linear Algebra and high school Ordinary Differential Equations B.</p>	031025##
<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD &amp; TCC Prerequisites:</u> MATH-2414 with minimum grade of C</p> <p><u>Early College High School Grade Placement:</u> 11-12</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=04. Course taught by an approved adjunct instructor.</p>	<p>Grade level: 11-12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>INDEPENDENT STUDY IN MATH DAP: HONORS MATHEMATICAL MODELING USING COMPUTER SIMULATION AB</b></p>	<b>7130 AB</b>
<p>This one- or two-semester course is designed for students to use an interdisciplinary approach to modeling physical events in the real world. For example, pilots are trained on computer simulators, new medicinal drugs are designed with the aid of computer models, economic projections and weather forecasting are based upon mathematical formats that are solved through intensive computer programming. This course will use skills and concepts learned in various mathematics courses (algebra-calculus, economics, physics, biology, anatomy, and physiology, and computer science).</p>	031025##
<p><u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Mathematics Director</p> <p><u>Prerequisites:</u> AP Calculus AB and student interest</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p>Course taught by a locally certified gifted teacher. State elective credit</p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 0.5-1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>INDEPENDENT STUDY IN MATH DAP: HONORS NUMBER THEORY AB</b></p>	<b>7215 AB</b>
<p>Provides the opportunity for students to learn concepts and skills involving the use of integers.</p>	031025##
<p><u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Mathematics Director</p> <p><u>Prerequisites:</u> Algebra II</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p>Course taught by a locally certified gifted teacher. State elective credit.</p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>INDEPENDENT STUDY IN MATH DAP: CALCULUS BASED STATISTICS AB</b></p>	<b>7235 AB</b>
<p>Provides a study of permutations, combinations, binomial theorems, equally likely outcomes, random variables, joint and continuous distributions, the binomial distribution, and inferential statistics.</p>	031025##
<p><u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Mathematics Director</p> <p><u>Prerequisites:</u> AP Calculus BC or concurrent enrollment</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p>Course taught by a locally certified gifted teacher. State elective credit.</p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT CALCULUS BASED STATISTICS AB</b></p> <p><b>TCC Course: Elementary Statistical Methods (MATH 1342)</b></p>	<b>7237 AB</b>
<p>Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Topics may include population sampling; collection, tabulation, and graphing of data; frequency distributions; mean and standard deviation; normal distribution; correlation and regression, and tests for significance. This is a regular college-level Statistics course in which dual credit will be awarded for college Elementary Statistical Methods and high school Calculus Based Statistics.</p>	<p>031025##</p> <p>Grade level: 11-12</p> <p>Credit(s): 1</p> <p>College Hour(s): 3 hours</p>

<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD Prerequisites:</u> AP Calculus AB</p> <p><u>TCC Prerequisites:</u> TSI compliant in mathematics</p> <p>Early College High School Grade Placement: 10-12</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p><i>Course taught by an approved adjunct instructor. State elective credit</i></p>	<b>Tier I</b>
<p><b>INDEPENDENT STUDY IN MATHEMATICS DAP: HONORS LOGIC DESIGN USING BOOLEAN ALGEBRA</b></p>	<b>7275 AB</b>
<p>The Honors Logic Design using Boolean Algebra course provides opportunities to study the Boolean mathematics behind and the design methods for combinational and sequential digital logic systems from standard integrated circuits. The students will also design, implement and evaluate their logic circuit designs using basic digital lab techniques. Both combinational and sequential logic circuits will be implemented and tested in the labs.</p>	031025##
<p><u>Instructional Material:</u> <i>Laboratory materials provided by high school</i></p> <p><u>Prerequisites:</u> Co-requisite of an AP level mathematics course</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p><i>Course taught by an approved adjunct instructor. State elective credit.</i></p> <p><i>Offered at: Paschal</i></p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>INDEPENDENT STUDY IN MATH DAP: HONORS LINEAR ALGEBRA ABH</b></p>	<b>7277 ABH</b>
<p>Presents matrices and vectors, transformations and matrices, representatives of linear transformations, and some elementary analytic geometry from a vector standpoint.</p>	031025##
<p><u>Instructional Material:</u> <i>Introductory Linear Algebra with Applications, Macmillan</i></p> <p><u>Prerequisites:</u> AP Calculus A, AP Calculus AB, AP Statistics or concurrent enrollment</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p><i>Course taught by a locally certified gifted teacher. State elective credit.</i></p> <p><i>Offered only at: Paschal</i></p>	<p>Grade level: 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT LINEAR ALGEBRA IT</b></p> <p><b>TCC Course: Linear Algebra (MATH 2318)</b></p>	<b>7279 T</b>
<p>Introduces and provides models for application of the concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrices; determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering.</p>	031025##
<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD &amp; TCC Prerequisites:</u> MATH-2414 with minimum grade of C</p> <p><u>Early College High School Grade Placement:</u> 11-12</p> <p><u>What's Next?</u> N/A</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p>Grade level: 11-12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 3 hours</p> <p><b>Tier I</b></p>
<p><b>INDEPENDENT STUDY IN MATH DAP: ELECTRICAL CIRCUIT THEORY AB</b></p>	<b>7278 AB</b>
<p>The Electrical Circuit Theory course will supplement the basic knowledge of the function of electrical circuits provided by an introductory physics course. This course is modeled after the initial analog circuits course in a university electrical engineering program. Students will engage in theoretical analysis of circuit response via mathematical methods and computer simulation as well as hands-on design, construction, and testing of electrical circuits in a laboratory environment.</p>	031025##
<p><u>Instructional Material:</u> N/A</p> <p><u>Prerequisites:</u> Successful completion of AP Calculus AB and concurrent enrollment in AP Calculus BC. Successful completion of AP Physics 1 or an equivalent course.</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p><i>Course taught by a locally certified gifted teacher. State elective credit.</i></p>	<p>Grade level: 11-12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>INDEPENDENT STUDY IN MATHEMATICS: OPTICS</b></p>	<b>7256 AB</b>
<p>In Optics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: the principles of reflection and refraction, reflective optics, lenses and ray tracing, physical optics, and lasers. Students who successfully complete the Optics course will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical-thinking skills.</p>	031025##
<p><u>Instructional Material:</u> <i>Optics, 5<sup>th</sup> edition</i>, by Eugene Hecht, Pearson, ISBN 9780133977226</p> <p><u>Prerequisites:</u> AP Calculus AB, AP Physics 1 or an equivalent course.</p> <p><u>What's Next?</u> N/A</p> <p>031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05</p> <p><i>Course taught by a locally certified gifted teacher. State elective credit.</i></p>	<p>Grade level: 11-12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>

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**INDEPENDENT STUDY IN MATHEMATICS: ASTROPHYSICS****7257 AB**

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The Astrophysics course will cover the same curricular topics found in the Honors Astronomy course. However, the topics will be explored in greater depth using the advanced mathematics and physics skills including calculus, differential equations, spectrum analysis, and quantum physics. The course will emphasize application and critical thinking for problem solving.

031025##

Grade level: 11-12

Credit(s): 1

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Instructional Material: *Astronomy Today*, by Chaisson and McMillan, Pearson, ISBN 978-0-321-90167-5

College Hour(s): NA

Prerequisites: AP Calculus AB, AP Physics 1 or an equivalent course.

**Tier I**

What's Next? N/A

031025##- 1st Time ##=00, 2nd Time ##=01, 3rd Time ##=05

Course taught by a locally certified gifted teacher.

State elective credit.

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# ***SCIENCE***

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# SCIENCE GRADUATION REQUIREMENTS

ALL STUDENTS ARE REQUIRED to pass Biology EOC exam

## FOUNDATION PLANS

One credit: in Biology or AP/IB Biology.

One credit: must be selected from the following laboratory-based courses:

- Integrated Physics & Chemistry
- Chemistry
- AP/DC Chemistry
- OnRamps Chemistry
- Physics
- Principles of Technology
- AP Physics 1 (Algebra-based)
- DC Physics
- OnRamps Physics

The 3rd & 4th Science credit may be selected from one full credit or a combination of two half credits from the following:

- Chemistry
- Physics
- Principles of Technology
- Aquatic Science / DC
- Astronomy / DC
- Earth Systems Science / DC
- Environmental Systems / DC
- Engineering Science
- CTE: Engineering Science
- CTE: Food Science
- CTE: Scientific Research & Design
- CTE: Anatomy & Physiology
- DC Anatomy & Physiology
- CTE: Eng Design & Prob Solving
- CTE: Forensic Science
- CTE: Adv Animal Science
- CTE: Pathophysiology
- CTE: Adv Plant & Soil Science
- CTE: Medical Microbiology
- DC SRD: Biology for Non-Science Majors
- DC SRD: General Chemistry
- DC SRD: College Physics
- AP/DC Biology
- AP/DC Chemistry
- OnRamps Biology
- OnRamps Chemistry
- OnRamps Chemistry II
- AP Physics 1 or 2 (Algebra-based)
- AP Physics C - Mechanics
- AP Physics C - Electricity & Magnetism
- DC Physics
- OnRamps Physics
- OnRamps Physics II
- OnRamps Earth & Space Science
- AP Environmental Science
- Biotechnology I
- Biotechnology II

### Possible Endorsement Opportunities:

- Multidisciplinary
- Business & Industry
- STEM (Sci, Tech, Eng & Math)

## Science

### Science SAMPLE Course Sequence and Testing Guide

	Traditional		Advanced		Advanced Placement (AP) /OnRamps/ Dual Credit (DC)	
6 <sup>th</sup>	Gr 6 Science: 0300	None	Gr 6 Advanced Science: 0313	None	Gr 6 Advanced Science: 0313	None
7 <sup>th</sup>	Gr 7 Science: 0304	None	Gr 7 Advanced Science: 0303	STAAR Gr 8	Gr 7 Advanced Science: 0303	STAAR Gr 8
8 <sup>th</sup>	Gr 8 Science: 0305	STAAR Gr 8	Grade 8 Science: 0305 or Honors Biology: 7574	STAAR Gr 8 or Bio EOC	Honors Biology: 7574	Bio EOC
9 <sup>th</sup>	Biology: 7572 or Integrated Physics/Chemistry: 7532	Bio EOC or None	Honors Chemistry: 7594 or Honors Biology: 7574	None or Bio EOC	Honors Biology: 7574 or Honors Chemistry: 7594 or AP Physics: 7625	Bio EOC or None
10 <sup>th</sup>	Biology: 7572 or Chemistry: 7592 or Physics: 7614	Bio EOC or PSAT Exams vary by course	Honors Chemistry: 7594 or Honors Biology: 7574	Bio EOC or PSAT Exams vary by course	Honors Chemistry: 7594 or AP Physics: 7625 or Honors Biology: 7574	Bio EOC or PSAT Exams vary by course
11 <sup>th</sup>	Chemistry: 7592 or Physics: 7614	PSAT SAT ACT	AP/DC Science Elective or Advanced Science	Exams vary by course	AP/DC/OnRamps Science Elective or Advanced Science	Exams vary by course
12 <sup>th</sup>	Advanced Science or CTE Equivalent	PSAT SAT ACT	AP/DC/OnRamps Science Elective or Advanced Science	Exams vary by course	AP/DC/OnRamps Science Elective or Advanced Science	Exams vary by course

**INTEGRATED PHYSICS/CHEMISTRY AB**

**7532 AB**

**SHELTERED INTEGRATED PHYSICS AND CHEMISTRY AB – NP**

**7526 AB**

**SHELTERED INTEGRATED PHYSICS AND CHEMISTRY AB**

**7528 AB**

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

03060201

Instructional Material: *Texas IPC from Activate Learning; ISBN 9781682316900*

Grade level: 9 – 10

Prerequisites: None

Credit(s): 1

What's Next? Biology, if IPC was taken as the first high school science or any 3<sup>rd</sup> or 4<sup>th</sup> year science credit if Biology has been successfully completed.

College Hour(s): NA

**Tier III**

NOTE: IPC does **NOT** count as an "additional science course" for the STEM endorsement.

All Newcomer Program teachers must be content and ESL certified.



<p><b>DUAL CREDIT INTEGRATED PHYSICS AND CHEMISTRY AB</b>  <b>TCC Course: Physical Science I (PHYS 1415 and PHYS 1415 Lab)</b>  <b>TWU Course: Nature of Physical Science (CHE 1403)</b></p>	<p><b>7535 AB</b></p>
<p>Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.</p>	<p>03060201</p>
<p><u>Instructional Material:</u> N/A  <u>FWISD &amp; TCC Prerequisites:</u> None  <u>TCC Co-Requisite:</u> PHYS-1415 Lab  <u>TWU Prerequisites:</u> Only offered at Dunbar  <u>What's Next?</u> N/A  Early College High School Grade Placement: 9-12. Course taught by an approved adjunct instructor.</p>	<p>Grade level: N/A  Credit(s): 1  College Hour(s): 4 hours  <b>Tier I</b></p>
<p><b>BIOLOGY AB</b>  <b>SHELTERED BIOLOGY AB – NP</b>  <b>SHELTERED BIOLOGY AB</b>  <b>BIOLOGY AB</b></p>	<p><b>7572 AB</b>  <b>7573 AB</b>  <b>7575 AB</b>  <b>75725 AB</b></p>
<p>Students in Biology focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems. One credit of Biology is required for graduation. Students entering GRADE 9 in 2011-2012 and thereafter are required to take the STAAR End of Course (EOC) exam in this course.</p>	<p>03010200</p>
<p><u>Instructional Material:</u> <i>Miller &amp; Levine's Experience Biology from Savvas; ISBN 9781418358921</i>  <u>Prerequisites:</u> None  <u>What's Next?</u> Any course from the laboratory-based course category that aligns with the students' particular endorsement. NOTE: Students with a multidisciplinary endorsement are required to have chemistry <b>OR</b> physics as their lab-based credit.  <i>All students will take the Biology EOC.</i>  All Newcomer Program teachers must be content and ESL certified.</p>	<p>Grade level: 9 - 11  Credit(s): 1  College Hour(s): NA    <b>Tier III</b></p>
<p><b>HONORS BIOLOGY AB</b>  <b>SHELTERED HONORS BIOLOGY AB</b></p>	<p><b>7574 AB</b>  <b>7576 AB</b></p>
<p>In Honors Biology, students engage in real-world data analysis and problem solving that sparks critical thinking about our living world. As students engage in grade-level biology content described in the Biology AB course description, they utilize the kind of scientific reasoning skills needed to analyze the natural world and to succeed in future science and social science courses in high school, such as AP Biology, and college. Multiple opportunities to think and work like scientists include an emphasis on analytical reading and writing, strategic use of mathematics, and an expanded use of modeling. One credit of Biology is required for graduation.</p>	<p>03010200</p>
<p><u>Instructional Material:</u> <i>Miller &amp; Levine's Experience Biology from Savvas; ISBN 9781418358921</i>  <u>Recommended Prerequisites:</u> None  <u>What's Next?</u> Any course from the laboratory-based course category that aligns with the students' particular endorsement. NOTE: Students with a multidisciplinary endorsement are required to have chemistry <b>OR</b> physics as their lab-based credit.  <i>Students will take the Biology EOC.</i></p>	<p>Grade level: 8 - 10  Credit(s): 1  College Hour(s): NA    <b>Tier II</b></p>
<p><b>AP BIOLOGY AB</b></p>	<p><b>7590 AB</b></p>
<p>This course involves extensive laboratory investigations and advanced topics in Biology including molecules and cells, heredity and evolution, and organisms and populations. The course prepares students to take the College Board AP Biology Examination. One credit of Biology is required for graduation.</p>	<p>A3010200</p>
<p><u>Instructional Material:</u> <i>1715 – AP Edition Biology, 11th Edition, Media-Onboard Connect electronic resources and digital Scoreboard for each student. McGraw-Hill School Education, LLC, ISBN: 9780076649761</i>  <u>Recommended Prerequisites:</u> Successful completion of Biology and Chemistry  <u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.  NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.  <i>If students are using this course as a substitution for the on-level or Honors Biology, they will take the Biology EOC.</i></p>	<p>Grade level: 10 – 12  Credit(s): 1  College Hour(s): NA  <b>Tier I</b></p>
<p><b>OnRamps BIOLOGY AB</b></p>	<p><b>7591 AB</b></p>
<p>This course focuses on molecular and cellular biology. It revolved around three big ideas of biology starting with the student of the structure and function of biomolecules. The flow of energy through living systems via photosynthesis and cellular respiration is the second big idea of the class. The course finishes with investigation of how genetic information is expressed and transmitted both within and between cells. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.</p>	<p>A3010200</p>
<p><u>Instructional Material:</u> Selected and provided by the University of Texas at Austin  <u>Prerequisites:</u> TEKS based High School Biology, TEKS based High School Chemistry  <u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.  NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>Grade level: 10 – 12  Credit(s): 1  College Hour(s): 3  <b>Tier I</b></p>

<b>CHEMISTRY AB</b>	<b>7592 AB</b>
<b>SHELTERED CHEMISTRY AB – NP</b>	<b>7596 AB</b>
<b>SHELTERED CHEMISTRY AB</b>	<b>7598 AB</b>
<b>CHEMISTRY AB</b>	<b>75925 AB</b>
In Chemistry, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how Chemistry is an integral part of our daily lives.	03040000
<u>Instructional Material:</u> <i>Experience Chemistry from Savvas; ISBN 9781418358891</i>	Grade level: 10 - 12
<u>Required Prerequisites:</u> One unit of high school science and Algebra I	Credit(s): 1
<u>Suggested prerequisite:</u> Completion of, or concurrent enrollment in, a second year of mathematics	College Hour(s): NA
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	<b>Tier III</b>
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics. All Newcomer Program teachers must be content and ESL certified.	
<b>HONORS CHEMISTRY AB</b>	<b>7594 AB</b>
<b>SHELTERED HONORS CHEMISTRY AB</b>	<b>7595 AB</b>
In Honors Chemistry, students develop a deep conceptual understanding of matter and energy at the molecular level as they learn to explain their macroscopic observations using particulate-level reasoning. As students engage in grade-level Chemistry content described in the Chemistry AB course description, They utilize the scientific reasoning skills needed to analyze the natural world and to succeed in future science and social science courses in high school, such as AP Chemistry, and college. Multiple opportunities to think and work like scientists include a particular attention to modeling, strategic use of mathematics, and an emphasis on analytical reading and writing.	03040000
<u>Instructional Material:</u> <i>Experience Chemistry from Savvas; ISBN 9781418358891</i>	Grade level: 9 - 12
<u>Required Prerequisites:</u> One unit of High School Science and Algebra I	Credit(s): 1
<u>Suggested prerequisite:</u> Completion of, or concurrent enrollment in, a second year of mathematics	College Hour(s): NA
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	<b>Tier II</b>
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	
<b>AP CHEMISTRY AB</b>	<b>7610 AB</b>
This course involves extensive laboratory investigations and advanced topics in Chemistry, such as quantitative analysis, thermodynamics, bonding, ideal gas laws, and stoichiometry. This class prepares students to take the AP Chemistry Examination.	A3040000
<u>Instructional Material:</u> <i>1733 – Chemistry, 9th Edition ©2014 with OWL, ISBN: 9781133611103, OWL AP Chemistry Resource Website w eBook; AP Lab Manual ISBN: 9781133611493 National Geographic Learning/Cengage Learning, Inc.</i>	Grade level: 10 – 12
<u>Recommended Prerequisites:</u> Successful completion of a Chemistry course and Algebra II.	Credit(s): 1
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	College Hour(s): NA
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	<b>Tier I</b>
<b>OnRamps CHEMISTRY I AB</b>	<b>7597 AB</b>
This course addresses the nature of matter, energy, chemical reactions, and chemical thermodynamics. Throughout the course, students will learn how to think like a scientist by exploring the underlying theoretical foundations of chemistry, making intuitive arguments for how the world works. May be paired with advanced science lab 7626T (Minimum 40% lab). OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.	3040000
<u>Instructional Material:</u> Selected and provided by the University of Texas at Austin	Grade level: 9 – 12
<u>Prerequisites:</u> Algebra 1	Credit(s): 1
<u>What's Next?</u> AP Biology, AP Physics or any advanced science course	College Hour(s): 4
	<b>Tier I</b>
<b>OnRamps CHEMISTRY II AB</b>	<b>7593 AB</b>
This course continues the development and application of concepts, theories and laws underlying chemistry that were introduced in OnRamps Chemistry I. The course extends the study of thermodynamics to the development of chemical equilibria and kinetics with applications to water chemistry and electrochemistry. In addition, students will gain insight into the workings of the material world through introduction to nuclear chemistry, battery technology, polymer chemistry and applications in organic chemistry and biochemistry. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.	A3040000
<u>Instructional Material:</u> Selected and provided by the University of Texas at Austin	Grade level: 10 – 12
<u>Prerequisites:</u> OnRamps Chemistry I, AP Chem or equivalent	Credit(s): 1
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	College Hour(s): 4
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	<b>Tier I</b>
<b>DUAL CREDIT CHEMISTRY A</b>	<b>7599 A</b>
<b>TCC Course: General Chemistry I (CHEM 1411 and CHEM 1411 Lab)</b>	
Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry,	03040000

<p>periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Laboratory required.</p> <p><u>Instructional Material:</u> N/A</p> <p><u>FWISD &amp; TCC Prerequisites:</u> MATH-1314 or equivalent academic preparation</p> <p><u>TCC Co-Requisite:</u> CHEM-1411 Lab</p> <p><u>What's Next?</u> N/A</p> <p>Early College High School Grade Placement: 9-12.</p> <p>Course taught by an approved adjunct instructor.</p>	<p>Grade level: 10 – 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT CHEMISTRY B</b></p> <p><b>TCC Course: General Chemistry II (CHEM 1412 and CHEM 1412 Lab)</b></p>	<p><b>7599 B</b></p>
<p>This course is a continuation of Chem 1411 &amp; 1411L. Topics covered in this course include: Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Laboratory required.</p> <p><u>Instructional Material:</u> N/A</p> <p><u>FWISD &amp; TCC Prerequisites:</u> CHEM-1411 and MATH-1314</p> <p><u>TCC Co-Requisite:</u> CHEM-1412 Lab</p> <p><u>What's Next?</u> N/A</p> <p>Early College High School Grade Placement: 9-12.</p> <p>Course taught by an approved adjunct instructor.</p>	<p>03040000</p> <p>Grade level: 10 – 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>PHYSICS AB</b></p>	<p><b>7614 AB</b></p>
<p>In Physics, students conduct field and laboratory investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation.</p> <p><u>Instructional Material:</u> <i>Experience Physics from Savvas; ISBN 9781418358860</i></p> <p><u>Suggested Prerequisites:</u> Successful completion of, or concurrent enrollment in, Algebra II</p> <p><u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.</p> <p>NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>03050000</p> <p>Grade level: 10 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS MODERN PHYSICS ABH</b></p>	<p><b>0689 ABH</b></p>
<p>This course is designed for students to use an interdisciplinary approach to explore the physical processes in nature that can only be described by quantum mechanics. This analysis and description are highly mathematical in content. For example, the position of an electron is found in terms of a probability density function. This course will use skills and concepts learned in various mathematics courses (Algebra II – Calculus), physics, and computer science. This stimulating environment will foster creativity and academic growth well beyond an honors curriculum and will open the imagination of students to the science of the 21st century.</p> <p><u>Instructional Material:</u> <i>Suggested Instructional Material(s): Modern Physics for Scientists and Engineers Contact the content director (Science and/or Mathematics Director, based on content credit to be awarded)</i></p> <p><u>Suggested Prerequisites:</u> Successful completion of AP Physics C, AP Calculus BC. Concurrent enrollment in AP Multi-Variable Calculus. Completion of, or concurrent enrollment in, AP Chemistry is beneficial.</p> <p><u>What's Next?</u> N/A</p>	<p>N1120041</p> <p>Grade level: 11 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>AP PHYSICS I AB (Algebra Based)</b></p>	<p><b>7625 AB</b></p>
<p>This algebra-based course is equivalent to a first-semester college algebra-based physics course. The algebra-based course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits. Prepares students to take the AP Physics 1 examination.</p> <p><u>Instructional Material:</u> <i>1749 – AP Edition College Physics: A Strategic Approach, 3rd Edition, ©2015, Media-e-book version and other online resources, Pearson Education, Inc., ISBN: 9780133539677</i></p> <p><u>Recommended Prerequisites:</u> Successful completion of Algebra I, Geometry and Algebra II</p> <p><u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.</p> <p>NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>A3050003</p> <p>Grade level: 10 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>AP PHYSICS II AB (Algebra Based)</b></p>	<p><b>7627 AB</b></p>
<p>The algebra-based course is equivalent to a second-semester college algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; atomic and nuclear physics. Prepares students to take the AP Physics II examination.</p> <p><u>Instructional Material:</u> <i>1749 – AP Edition College Physics: A Strategic Approach, 3rd Edition, ©2015, Media-e-book version and other online resources, Pearson Education, Inc., ISBN: 9780133539677</i></p> <p><u>Recommended Prerequisites:</u> Successful completion of Physics AB or AP Physics 1</p> <p><u>Recommended Co-requisite:</u> Pre-calculus or an equivalent course.</p> <p><i>Science Director's approval is required to offer this course new to a campus.</i></p> <p><u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.</p> <p>NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>A3050004</p> <p>Grade level: 11 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>

<b>AP PHYSICS C - MECHANICS AB</b>	<b>7628 AB</b>
This calculus-based course provides instruction in each of the following six content areas: kinematics; Newton's laws of motion; work and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Prepares students to take the AP Physics C: Mechanics exam.	A3050006
<u>Instructional Material:</u> 1750 – <i>Physics for Scientists and Engineers</i> , ©2015 9th Edition Media-e-book version and other online instructional material, National Geographic Learning / Cengage Learning, Inc., ISBN: 9781305335615	Grade level: 11 – 12
<u>Recommended Prerequisites:</u> Successful completion or concurrent enrollment in a calculus course.	Credit(s): 1
<u>What's Next?</u> AP Physics C- Electricity and Magnetism; Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement. NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	College Hour(s): NA
<b>AP PHYSICS C - ELECTRICITY AND MAGNETISM AB</b>	<b>7618 AB</b>
This calculus-based course provides instruction in each of the following five content areas: electrostatics; conductors; capacitors; and dielectrics; circuits; magnetic fields; and electromagnetism. Prepares students to take the AP Physics C: Electricity and Magnetism exam.	A3050005
<u>Instructional Material:</u> 1750 – <i>Physics for Scientists and Engineers</i> , ©2015 9th Edition Media-e-book version and other online instructional material, National Geographic Learning / Cengage Learning, Inc., ISBN: 9781305335615	Grade level: 11 – 12
<u>Recommended Prerequisites:</u> Successful completion or concurrent enrollment in a calculus course or AP Physics C- Mechanics.	Credit(s): 1
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	College Hour(s): NA
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	<b>Tier I</b>
<b>OnRamps PHYSICS I AB</b>	<b>7613 AB</b>
Students study a variety of topics that include the laws of motion; changes within physical systems; conservation of momentum and energy; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear and quantum physics. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher. May be paired with advanced science lab 7626T (Minimum 40% lab).	03050000
<u>Instructional Material:</u> Selected and provided by the University of Texas at Austin	Grade level: 10-12
<u>Required Prerequisites:</u> Algebra I and Geometry	Credit(s): 1
<u>Recommended Prerequisites:</u> Algebra II or Precalculus	College Hour(s): 4
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	<b>Tier I</b>
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	
<b>OnRamps PHYSICS II AB</b>	<b>STH03724 AB</b>
Students study topics that include electromagnetism, optics, and Nuclear. Students will explore how electric, magnetic, and electromagnetic effects arise from static, uniformly moving and accelerating charges. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher. May be paired with advanced science lab 7626T (Minimum 40% lab).	A3050004
<u>Instructional Material:</u> Selected and provided by the University of Texas at Austin	Grade level: 10-12
<u>Required Prerequisites:</u> TEKS-based Physics Course (or OnRamps Physics I or AP Physics I), Algebra II, and Geometry	Credit(s): 1
<u>Recommended Prerequisites:</u> OnRamps Physics I, AP Physics I, Honors Physics, or PHYS 1301, and Precalculus	College Hour(s): 3
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	<b>Tier I</b>
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	
<b>HONORS THERMODYNAMICS</b>	<b>7136 AB</b>
The Thermodynamics course is designed as a relatively comprehensive overview of the field of classical thermodynamics with some statistical mechanics injected toward the end of the semester to tie in with more modern approaches. The class begins with a discussion of what thermodynamics includes, the meaning of certain important terms and approaches. The idea of temperature and temperature scales, methods of heat transfer, and the various types of thermodynamic processes are discussed. The various laws of thermodynamics are covered, (zeroth, first, second, third) building on knowledge and practical applications of each law as it's introduced to the student. During the units, simple laboratory experiments will be utilized to solidify conceptual knowledge.	03102502
<u>Instructional Material:</u> <i>Thermodynamics – Enrico Fermi</i> , <i>Understanding Thermodynamics – Van Ness</i>	Grade level: 10-12
<u>Prerequisites:</u> Successful completion of Calculus AB plus one of the following: AP Physics 1, On-Ramps Physics 1, or AP Physics C Mechanics	Credit(s): 0.5
<u>What's Next?</u> N/A	College Hour(s): NA
<b>DUAL CREDIT PHYSICS A</b>	<b>7624 A</b>
<b>TCC Course: College Physics I (PHYS 1401 and PHYS 1401 Lab)</b>	
Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving.	03050000
<u>Instructional Material:</u> N/A	Grade level: 11 – 12
<u>FWISD &amp; TCC Prerequisites:</u> MATH-1314 and MATH-1316 or MATH-2412	Credit(s): 0.5
<u>TCC Co-Prerequisite:</u> PHYS-1401	College Hour(s): 4 hours
<u>Early College High School Grade Placement:</u> 10-12	<b>Tier I</b>
<u>What's Next?</u> N/A	

Course taught by an approved adjunct instructor.	
<b>DUAL CREDIT PHYSICS B</b>	<b>7624 B</b>
<b>TCC Course: College Physics II (PHYS 1402 and PHYS 1402 Lab)</b>	
Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.	03050000
<u>Instructional Material:</u> N/A	
<u>FWISD &amp; TCC Prerequisites:</u> PHYS-1401	Grade level: 10 – 12
<u>TCC Co-Prerequisite:</u> PHYS-1402 Lab	Credit(s): 0.5
<u>Early College High School Placement:</u> 10-12	College Hour(s): 4 hours
<u>What's Next?</u> N/A	<b>Tier I</b>
Course taught by an approved adjunct instructor.	
<b>AP ENVIRONMENTAL SCIENCE AB</b>	<b>7678 AB</b>
AP Environmental Science stresses scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.	A3020000
<u>Instructional Material:</u> <i>Living in the Environment, National Geographic Learning/Cengage Learning, Inc.</i>	Grade level: 11 - 12
<u>Recommended Prerequisites:</u> Algebra, two years of high school laboratory science, including one year of life science and one year of physical science	Credit(s): 1
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	College Hour(s): NA
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	<b>Tier I</b>
<b>ADVANCED SCIENCE LAB T</b>	<b>7626 T</b>
This course can be taken concurrently with AP science courses if campuses wish to schedule a year-long lab component to supplement the AP course. It can be paired with the following courses: ST37202, STH03724, 7590, 7597, 7610, 7625, 7627, 7628, 7613, 7618 and 7678.	84800XXX
<u>Instructional Material:</u> <i>No state adopted instructional material(s)/Contact Director of Science</i>	Grade level: 10 - 12
<u>Prerequisites:</u> None	Credit(s): 0.5
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	College Hour(s): NA
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	<b>Tier III</b>
<i>Local credit course.</i>	
<b>AQUATIC SCIENCE AB</b>	<b>7536 AB</b>
In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including natural and human impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science acquire knowledge about how the properties of water and fluid dynamics affect aquatic ecosystems and acquire knowledge about a variety of aquatic systems. Students who successfully complete Aquatic Science conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.	03030000
<u>Instructional Material:</u> <i>STEAM into Aquatic Science HS Edition from TPS Publishing; ISBN 81788053150</i>	Grade level: 10 – 12
<u>Required Prerequisites:</u> One unit of high school Biology.	Credit(s): 1
<u>Suggested prerequisite:</u> Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course.	College Hour(s): NA
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	<b>Tier III</b>
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	
<b>DUAL CREDIT AQUATIC SCIENCE AB</b>	<b>7537 AB</b>
<b>TCC Course: Oceanography (GEOL 1445 and GEOL 1445 Lab)</b>	
Survey of oceanography and related sciences.	03030000
<u>Instructional Material:</u> N/A	
<u>FWISD Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one (1) of which may be taken concurrently.	Grade level: N/A
<u>TCC Co-Prerequisite:</u> GEOL-1455 Lab	Credit(s): 1
<u>Early College High School Grade Placement:</u> 11-12	College Hour(s): 4 hours
<u>What's Next?</u> N/A	<b>Tier I</b>
Course taught by an approved adjunct instructor.	
<b>EARTH SYSTEMS SCIENCE AB</b>	<b>7538 AB</b>
The Earth Systems Science course is designed to build on students' prior scientific and academic knowledge and skills to develop their understanding of Earth's systems. These systems (the atmosphere, hydrosphere, geosphere, and biosphere) interact through time to produce the Earth's landscapes, climate, and resources. Students explore the geologic history of individual dynamic systems through the flow of energy and matter, their current states, and how these systems affect and are affected by human use.	03060200
<u>Instructional Material:</u> <i>Earth Systems SE for TX from Cengage-National Geographic; ISBN 9798214068763</i>	Grade level: 11 – 12
<u>Required Prerequisites:</u> Algebra I and two credits of high school science.	Credit(s): 1
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	College Hour(s): NA
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	<b>Tier III</b>

<b>OnRamps GEOSCIENCE</b>	<b>7534 AB</b>
This course introduces students to the major areas in geoscience and helps them develop critical, creative, and geological problem-solving skills, as applied to 21 <sup>st</sup> century scientific problems. It covers the fundamentals of how the earth works, and how various systems (lithosphere, atmosphere, hydrosphere, and biosphere) interact to form the complex of which we live. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.	03060200
<u>Instructional Material:</u> Selected and provided by the University of Texas at Austin	Grade level: 11 – 12
<u>Required Prerequisites:</u> Biology or IPC	Credit(s): 1
<u>Recommended Prerequisites or Corequisite:</u> Chemistry	College Hour(s): 3
<u>What's Next?</u> Any 3 <sup>rd</sup> or 4 <sup>th</sup> year science credit that is aligned to the students' particular endorsement.	<b>Tier I</b>
NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.	
<b>DUAL CREDIT EARTH AND SPACE SCIENCE AB</b>	<b>7539 AB</b>
<b>TCC Course: Earth Sciences, Non-Science Majors (GEOL 1401 and GEOL 1401 Lab)</b>	
Survey of geology, meteorology, oceanography, and astronomy.	03060200
<u>Instructional Material:</u> N/A	Grade level: N/A
<u>Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one (1) of which may be taken concurrently.	Credit(s): 1
<u>TCC Co-Prerequisite:</u> GEOL-1401 Lab	College Hour(s): 4 hours
<u>What's Next?</u> N/A	<b>Tier I</b>
Early College High School Grade Placement: 11-12	
Course taught by an approved adjunct instructor.	
<b>HONORS ORGANIC CHEMISTRY AB</b>	<b>7602 ABH</b>
This course is designed for those students seeking higher level learning in chemistry that are planning to pursue a college degree in chemistry, chemical engineering, pharmacy or pre-med associated majors. Organic chemistry will parallel the learning and education of a first semester, college organic chemistry course. By definition, organic chemistry is dedicated to the study of carbon compounds, which include hydrocarbons and fossil fuels. Students who successfully complete organic chemistry will be adequately prepared for the continuing advanced learning of chemistry in a college environment. Independent research is a required component of this honors course.	N1120027
<u>Instructional Material:</u> No state adopted instructional material(s)/FWISD textbook – <i>Organic Chemistry, McMurray</i>	Grade level: 11 – 12
<u>Prerequisites:</u> Recommended that student has successfully completed, or is concurrently enrolled in, AP Chemistry.	Credit(s): 1
<u>What's Next?</u> N/A	College Hour(s): NA
<i>This course counts for State Elective Credit only; therefore, it may not be counted as a required science course.</i>	<b>Tier I</b>
<b>DUAL CREDIT ORGANIC CHEMISTRY A</b>	<b>7604 A</b>
<b>TCC Course: Organic Chemistry I (CHEM 2423 and CHEM 2423 Lab)</b>	
Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. This course is intended for students in science or pre-professional programs.	N1120027
<u>Instructional Material:</u> N/A	Grade level: N/A
<u>FWISD &amp; TCC Prerequisites:</u> CHEM-1412	Credit(s): 0.5
<u>TCC Co-requisite:</u> CHEM-2423 Lab	College Hour(s): 4 hours
<u>Early College High School Grade Placement:</u> 11-12	<b>Tier I</b>
<u>What's Next?</u> N/A	
Course taught by an approved adjunct instructor.	
<b>DUAL CREDIT ORGANIC CHEMISTRY B</b>	<b>7604 B</b>
<b>TCC Course: Organic Chemistry II (CHEM 2425 and CHEM 2425 Lab)</b>	
Continuation of CHEM 2423. Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. This course is intended for students in pre-professional science programs.	N1120027
<u>Instructional Material:</u> N/A	Grade level: N/A
<u>FWISD &amp; TCC Prerequisites:</u> CHEM-1412	Credit(s): 0.5
<u>TCC Co-Requisite:</u> CHEM-2423 Lab	College Hour(s): 4 hours
<u>Early College High School Grade Placement:</u> 11-12	<b>Tier I</b>
<u>What's Next?</u> N/A	
Course taught by an approved adjunct instructor.	
<b>ASTRONOMY AB</b>	<b>7706 AB</b>
In Astronomy, students focus on patterns, processes, and relationships among astronomical objects in our universe. Students acquire basic astronomical knowledge and supporting evidence about sun-Earth-Moon relationships, the solar system, the Milky Way, the size and scale of the universe, and the benefits and limitations of exploration. Students conduct laboratory and field investigations to support their developing conceptual framework of our place in space and time.	03060100

<p><u>Instructional Material:</u> <i>Foundations of Astronomy SE 14<sup>th</sup> Ed. from Cengage-National Geographic; ISBN 9798214080888</i></p> <p><u>Required Prerequisites:</u> Algebra I and Integrated Physics and Chemistry or Chemistry.</p> <p><u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.</p> <p>NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS ASTRONOMY I ABH</b></p> <p>In Honors Astronomy, students develop a deep conceptual understanding of astronomical objects in our universe. As students engage in grade-level Astronomy content described in the Astronomy AB course description, they utilize the scientific reasoning skills needed to analyze the natural world and to succeed in future science and social science courses in high school and college. Multiple opportunities to think and work like scientists include a particular attention to modeling, strategic use of mathematics, and an emphasis on analytical reading and writing.</p>	<p><b>7707 ABH</b></p> <p>03060100</p>
<p><u>Instructional Material:</u> <i>Foundations of Astronomy SE 14<sup>th</sup> Ed. from Cengage-National Geographic; ISBN 9798214080888</i></p> <p><u>Required Prerequisites:</u> Algebra I and Integrated Physics and Chemistry or Chemistry.</p> <p><u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.</p> <p>NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>Grade level: 10 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT ASTRONOMY A</b></p> <p><b>TCC Course: Stars and Galaxies (PHYS 1403 and PHYS 1403 Lab)</b></p> <p>Study of stars, galaxies, and the universe outside our solar system. Laboratory requires night observations.</p>	<p><b>7708 A</b></p> <p>03060100</p>
<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one of which may be taken concurrently.</p> <p><u>TCC Co-Requisite:</u> PHYS-1403 Lab</p> <p><u>What's Next?</u> N/A</p> <p>Early College High School Grade Placement: 11-12</p> <p>Course taught by an approved adjunct instructor.</p>	<p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT ASTRONOMY B</b></p> <p><b>TCC Course: Solar System (PHYS 1404 and PHYS 1404 Lab)</b></p> <p>Study of the sun and its solar system, including its origin. Laboratory requires night observations.</p>	<p><b>7708 B</b></p> <p>03060100</p>
<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one (1) of which may be taken concurrently.</p> <p><u>TCC Co-Requisite:</u> PHYS-1404 Lab</p> <p><u>What's Next?</u> N/A</p> <p>Early College High School Grade Placement: 11-12</p> <p>Course taught by an approved adjunct instructor.</p>	<p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>ENVIRONMENTAL SYSTEMS AB</b></p> <p>In Environmental Systems, students conduct field and laboratory investigations, use scientific and engineering practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, natural changes in the environment, and human activities that impact the natural environment.</p>	<p><b>7676 AB</b></p> <p>03020000</p>
<p><u>Instructional Material:</u> <i>Cunningham's Principles of Environmental Science 2023 from McGraw Hill; ISBN 9780077037482</i></p> <p><u>Required Prerequisites:</u> One unit of high school biology.</p> <p><u>Suggested Prerequisites:</u> Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course.</p> <p><u>What's Next?</u> Any 3<sup>rd</sup> or 4<sup>th</sup> year science credit that is aligned to the students' particular endorsement.</p> <p>NOTE: Students with a STEM endorsement are required to complete chemistry AND physics.</p>	<p>Grade level: 10 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>DUAL CREDIT ENVIRONMENTAL SYSTEMS AB</b></p> <p><b>TCC Course: Environmental Biology (BIOL 2306 and BIOL 2306 Lab)</b></p> <p><b>TWU Course: Physical Science &amp; Environment (CHE 1404)</b></p> <p>Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research.</p>	<p><b>7680 AB</b></p> <p>03020000</p>
<p><u>Instructional Material:</u> N/A</p> <p><u>FWISD Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one (1) of which may be taken concurrently.</p> <p><u>TCC Recommended Prerequisite:</u> MATH-1314</p> <p><u>TCC Required Prerequisite:</u> TSI compliant in Writing, Reading and Mathematics</p> <p><u>TCC Co-Requisite:</u> BIOL-2306 Lab</p> <p><u>TWU Prerequisites:</u> Only Offered at Dunbar CHE 1403</p> <p>Early College High School Grade Placement: 11-12.</p> <p>Course taught by an approved adjunct instructor.</p>	<p>Grade level: N/A</p> <p>Credit(s): 1</p> <p>College Hour(s): 3 hours</p> <p><b>Tier I</b></p>
<p><b>OnRamps QUANTUM COMPUTING AB</b></p> <p>Quantum Computing offers an introduction to the modern science and technological applications of quantum physics. Students will develop a deep understanding of the seemingly bizarre quantum world and how its "weirdness" may be harnessed to solve real-world problems. Students taking this course will acquire unique technical skills in physics, programming, cybersecurity, and mathematics, as well as valuable soft skills in critical thinking, problem-</p>	<p><b>7137 AB</b></p> <p>031025##</p>

solving, and communication through class activities and group projects. This course lays the conceptual groundwork for STEM majors. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin (UT Austin) and can earn up to three hours of college credit and high school credit from their local teacher. This course will count as a math credit on the high school transcript. However, on the UT Austin college transcript it will be noted as a science credit.

Instructional Material: Selected and provided by the University of Texas at Austin  
Prerequisites: Algebra 1, Geometry; Recommended: Algebra II or Precalculus  
What's Next? N/A  
 031025##: 1<sup>st</sup> Time ##=00, 2<sup>nd</sup> Time ##=01, 3<sup>rd</sup> Time ##=05

**TEXAS PREFRESHMAN ENGINEERING PROGRAM I AB** **7421 AB**

Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.

Instructional Material: *Textbook(s) and materials provided by the participating university*  
Prerequisites: Average of 80 or higher in college preparatory mathematics course; teacher recommendation  
What's Next? N/A

**TEXAS PREFRESHMAN ENGINEERING PROGRAM II AB** **7423 AB**

Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.

Instructional Material: *Textbook(s) and materials provided by the participating university*  
Prerequisites: Average of 80 or higher in college preparatory mathematics course; teacher recommendation  
What's Next? N/A

**TEXAS PREFRESHMAN ENGINEERING PROGRAM III AB** **7425 AB**

Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.

Instructional Material: *Textbook(s) and materials provided by the participating university*  
Prerequisites: Average of 80 or higher in college preparatory mathematics course; teacher recommendation  
What's Next? N/A

**TEXAS PREFRESHMAN ENGINEERING PROGRAM IV AB** **7427 AB**

Available at Texas Wesleyan University and/or Tarrant County Community College, as summer enrichment for high ability students, these courses emphasize study and research in mathematics, engineering, and computer science. Preference is given to female students and minority students who have been underrepresented in the field of engineering. Note: This course is for state elective credit only, and some students may have earned one or two credits in middle school. For this course to count as an elective credit and to be calculated into the student's GPA; each student is responsible to provide his/her grade and course information to his/her counselor.

Instructional Material: *Textbook(s) and materials provided by the participating university*  
Prerequisites: Average of 80 or higher in college preparatory mathematics course; teacher recommendation

## CTE COURSES

*Students may repeat the Scientific Research and Design course TEKS with different course content for up to a maximum of three credits. If being taken as their fourth-year science course,*

**SCIENTIFIC RESEARCH AND DESIGN AB** **ST37202 AB**

Students may repeat the Scientific Research and Design course TEKS with different course content for up to a maximum of three credits. If being taken as their fourth-year science course, DAP students must successfully complete a biology, a chemistry, and a physics course prior to the Scientific Research and Design course or take it concurrently with the third one of these required courses.

Instructional Material: *Contact the content director (Science and/or CTE Director)*  
Prerequisites: To receive 4th year science credit students must have completed two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently.

130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20



<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN AB</b></p> <p>In addition to meeting the 40% laboratory and fieldwork requirement, students in this course must complete an independent research project. It is a required component of the all Honors Scientific Research and Design courses. Students taking the course for science credit must register and participate in the Fort Worth Regional Science and Engineering Fair. May also be taught by any certified secondary science teacher, or CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> To receive 4th year science credit students must have completed two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p> <p>Course taught by locally certified gifted CTE teacher</p>	<p><b>STH37202 AB</b></p> <p>130372##</p> <p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>SCIENTIFIC RESEARCH AND DESIGN II AB</b></p> <p>The student conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the science or CTE classrooms. Research in an area of bio-related technology; communication; construction; energy, power, and transportation; or engineering align with various CTE clusters. Students apply research to problem solving and development of prototypes and working models.</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> To receive 4th year science credit students must have completed two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently.</p> <p>Course taught by any certified secondary science teacher or CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p><b>ST37212 AB</b></p> <p>130372##</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN II AB</b></p> <p>The student conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the science or CTE classrooms. Research in an area of bio-related technology; communication; construction; energy, power, and transportation; or engineering align with various CTE clusters. Students apply research to problem solving and development of prototypes and working models. Special projects are included in this honors level course. Independent research is a required component of the all Honors Scientific Research and Design courses.</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> To receive 4th year science credit students must have completed two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p> <p>Course taught by locally certified gifted CTE teacher (May be taught by any certified secondary science teacher or CTE teacher with a baccalaureate degree and 18 semester credit hours</p>	<p><b>STH37212 AB</b></p> <p>130372##</p> <p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>SCIENTIFIC RESEARCH AND DESIGN III AB</b></p> <p>The student conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the science or CTE classrooms. Research in an area of bio-related technology; communication; construction; energy, power, and transportation; or engineering align with various CTE clusters. Students apply research to problem solving and development of prototypes and working models.</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> To receive 4th year science credit students must have completed two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently.</p> <p>Course taught by any certified secondary science teacher or CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p><b>ST37222 AB</b></p> <p>130372##</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN III AB</b></p> <p>The student conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the science or CTE classrooms. Research in an area of bio-related technology; communication; construction; energy, power, and transportation; or engineering align with various CTE clusters. Students apply research to problem solving and development of prototypes and working models. Special projects are included in this honors level course. Independent research is a required component of all the Honors Scientific Research and Design courses.</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> To receive 4th year science credit students must have completed two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p> <p>Course taught by locally certified gifted CTE teacher (May be taught by any certified secondary science teacher or CTE teacher with a baccalaureate degree and 18 semester credit hours</p>	<p><b>STH37222 AB</b></p> <p>130372##</p> <p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA</p> <p><b>Tier II</b></p>

<p><b>SCIENTIFIC RESEARCH AND DESIGN: INTRODUCTION TO CELL BIOLOGY AB</b></p> <p>This course provides an intricate introduction to cells and cellular processes. The course is meant to provide advanced science students the opportunity to engage in advanced experimentation. This course will introduce scientific research journal articles and give students the opportunity to assess and write about summary articles. This course is based upon TEKS developed by the teachers.</p>	<p><b>7578 AB</b></p> <p>130372##</p>
<p><u>Instructional Material:</u> <i>No state-adopted textbook</i></p> <p><u>Prerequisites:</u> Students should have completed or be concurrently enrolled in AP Biology, Medical Microbiology/Pathobiology, or AP Chemistry.</p> <p><u>What's Next?</u> University level course in Biology or enrollment in Medical Microbiology/Pathobiology or AP Biology</p> <p><i>Teachers teaching this course must be Composite Science or Biology certified, with some college work in Cell Biology.</i></p> <p><i>Offered only at: Paschal</i></p> <p><i>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</i></p>	<p>Grade level: 11 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN A</b></p> <p><b>TCC Course: Biology for Science Majors I (BIOL 1406 and BIOL 1406 Lab)</b></p> <p>Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of reproduction, genetics, and scientific reasoning are included.</p> <p><u>Instructional Material:</u> <i>TBD</i></p> <p><u>FWISD Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one (1) of which may be taken concurrently.</p> <p><u>TCC Recommended Prerequisites:</u> MATH 1314</p> <p><u>TCC Required Prerequisites:</u> TSI compliant in Writing, Reading and Mathematics</p> <p><u>TCC Co-requisite:</u> BIOL 1406 Lab</p> <p><u>High School Early College Placement:</u> 10-11</p> <p><u>What's Next?</u> N/A</p> <p>Course taught by an approved adjunct instructor.</p> <p><i>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</i></p>	<p><b>STD37202 A</b></p> <p>130372##</p> <p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN B</b></p> <p><b>TCC Course: Biology for Science Majors I (BIOL 1407 and BIOL 1407 Lab)</b></p> <p>Continuation of BIOL-1406. The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals.</p> <p><u>Instructional Material:</u> <i>TBD</i></p> <p><u>FWISD Prerequisites:</u> Three (3) units of science (Biology, Chemistry, Physics), one (1) of which may be taken concurrently.</p> <p><u>TCC Prerequisites:</u> TSI compliant in Writing, Reading and Mathematics</p> <p><u>TCC Co-requisite:</u> BIOL 1406 Lab.</p> <p><u>Early College High School Grade Placement:</u> 10-11</p> <p><u>What's Next?</u> N/A</p> <p>Course taught by an approved adjunct instructor.</p> <p><i>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</i></p>	<p><b>STD37202 B</b></p> <p>130372##</p> <p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN A: BIOLOGY FOR NON-SCIENCE MAJORS A</b></p> <p><b>TCC Course: Biology for Non-Science Majors I (BIOL 1408 and BIOL 1408 Lab)</b></p> <p>Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.</p> <p><u>Instructional Material:</u> <i>TBD</i></p> <p><u>FWISD Prerequisites:</u> Biology and Chemistry and/or Physics</p> <p><u>TCC Recommended Prerequisites:</u> None</p> <p><u>TCC Required Prerequisites:</u> TSI compliant in Writing, Reading and Mathematics</p> <p><u>TCC Co-requisite:</u> None</p> <p><u>Early College High School Grade Placement:</u> 11-12</p> <p><u>What's Next?</u> N/A</p> <p>Course taught by an approved adjunct instructor.</p> <p><i>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</i></p>	<p><b>STD1408A</b></p> <p><b>STD1408</b></p> <p>130372##</p> <p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN B: BIOLOGY FOR NON-SCIENCE MAJORS B</b></p> <p><b>TCC Course: Biology for Non-Science Majors II (BIOL 1409 and BIOL 1409 Lab)</b></p> <p>This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.</p> <p><u>Instructional Material:</u> <i>TBD</i></p> <p><u>FWISD Prerequisites:</u> Biology and Chemistry and/or Physics</p> <p><u>TCC Recommended Prerequisites:</u> None</p> <p><u>TCC Required Prerequisites:</u> TSI compliant in Writing, Reading and Mathematics</p> <p><u>TCC Co-requisite:</u> None</p>	<p><b>STD1409B</b></p> <p><b>STD1409</b></p> <p>130372##</p> <p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>

Early College High School Grade Placement: 11-12

What's Next? N/A

Course taught by an approved adjunct instructor.

130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20

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**DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN A: GENERAL CHEMISTRY A**

**STD1411A**

**TCC Course: General Chemistry I (CHEM 1411 and CHEM 1411 Lab)**

**STD1411LA**

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles in lecture; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

130372##

Instructional Material: TBD

Grade level: N/A

FWISD Prerequisites: Biology and Chemistry and/or Physics

Credit(s): 0.5

TCC Recommended Prerequisites: High School Chemistry

College Hour(s): 4 hours

TCC Required Prerequisites: MATH 1314 or equivalent academic preparation; TSI compliant in Writing, Reading and Mathematics

**Tier I**

TCC Co-requisite: None

Early College High School Placement: 11-12

What's Next? N/A

Course taught by an approved adjunct instructor.

130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20

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**DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN B: GENERAL CHEMISTRY B**

**STD1412B**

**TCC Course: General Chemistry II (CHEM 1412 and CHEM 1412 Lab)**

**STD1412**

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Basic laboratory experiments supporting theoretical principles presented in lecture; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

130372##

Instructional Material: TBD

Grade level: N/A

FWISD Prerequisites: Biology and Chemistry and/or Physics

Credit(s): 0.5

TCC Recommended Prerequisites: None

College Hour(s): 4 hours

TCC Required Prerequisites: CHEM 1411; TSI compliant in Writing, Reading and Mathematics

**Tier I**

TCC Co-requisite: None

Early College High School Placement: 11-12

What's Next? N/A

Course taught by an approved adjunct instructor.

130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20

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**DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN A: COLLEGE PHYSICS I**

**STD1401A**

**TCC Course: College Physics I (PHYS 1401 and PHYS 1401 Lab)**

**STD1401**

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving.

130372##

Instructional Material: TBD

Grade level: N/A

FWISD Prerequisites: Biology and Chemistry and/or Physics

Credit(s): 0.5

TCC Recommended Prerequisites: None

College Hour(s): 4 hours

TCC Required Prerequisites: MATH 1314 and MATH 1316 or MATH 2412; TSI compliant in Writing, Reading and Mathematics

**Tier I**

TCC Co-requisite: None

Early College High School Placement: 11-12

What's Next? N/A

Course taught by an approved adjunct instructor.

130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20

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**DUAL CREDIT SCIENTIFIC RESEARCH AND DESIGN B: COLLEGE PHYSICS II**

**STD1402B**

**TCC Course: College Physics II (PHYS 1402 and PHYS 1402 Lab)**

**STD1402**

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.

130372##

<p><u>Instructional Material:</u> TBD</p> <p><u>FWISD Prerequisites:</u> Biology and Chemistry and/or Physics</p> <p><u>TCC Recommended Prerequisites:</u> None</p> <p><u>TCC Required Prerequisites:</u> PHYS 1401; TSI compliant in Writing, Reading and Mathematics</p> <p><u>TCC Co-requisite:</u> None</p> <p><u>Early College High School Placement:</u> 11-12</p> <p><u>What's Next?</u> N/A</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p>Grade level: N/A</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN PROJECT BASED RESEARCH IN BOTANY AND SUSTAINABLE HORTICULTURE AB/H</b></p>	<p><b>STH30372 AB</b></p>
<p>Student project-based research to be conducted working with local outside nonprofit research institutes such as BRIT (Botanical Research Institute of Texas), Seed to Table, Gardening Guerillas, Urban Planning, and TRA (Trinity River Authority)</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> Successful completion of Biology, Chemistry, and Physics. Successful completion of Algebra II and Pre-Calculus, or concurrent enrollment in Pre-Calculus.</p> <p><u>What's Next?</u> N/A</p> <p>Students taking the course for science credit should register and participate in the Fort Worth Regional Science and Engineering Fair. This course has science content and skill equal to AP and Dual Credit courses. Contact the content director (Science and/or CTE Director) based on content credit to be awarded.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p>130372##</p> <p>Grade level: 11-12</p> <p>Credit(s): 1.0</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN SCIENCE TALENT SEARCH - YEAR 1 AB</b></p>	<p><b>STH03722 AB</b></p>
<p>Regeneron STS is a prestigious science research completion where young scientists present original research to nationally recognized professional scientists. In year one, students select their original research project and begin their research for entry.</p> <p><u>Instructional Material:</u> Contact the content executive director (Science)</p> <p><u>Prerequisites:</u> Teacher's approval</p> <p><u>What's Next?</u> N/A</p> <p>This course has science content and skill equal to AP and Dual Credit courses. Contact Science and the CTE Director.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p>130372##</p> <p>Grade level: 10-12</p> <p>Credit(s): 1.0</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN SCIENCE TALENT SEARCH - YEAR 2 AB</b></p>	<p><b>STH03712 AB</b></p>
<p>Regeneron STS is a prestigious science research completion where young scientists present original research to nationally recognized professional scientists. In year one, students select their original research project and begin their research for entry.</p> <p><u>Instructional Material:</u> Contact the content executive director (Science)</p> <p><u>Prerequisites:</u> Teacher's approval</p> <p><u>What's Next?</u> N/A</p> <p>Students taking the course for science credit must register and participate in the Fort Worth Regional Science and Engineering Fair. This course has science content and skill equal to AP and Dual Credit courses. Contact the content director (Science and/or CTE Director) based on content credit to be awarded.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p>130372##</p> <p>Grade level: 10-12</p> <p>Credit(s): 1.0</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN: INTERACTION OF RADIATION WITH MATTER I AB</b></p>	<p><b>7709 AB</b></p>
<p>Designed to allow students who have displayed higher levels of science and mathematics mastery to extend their skills across several academic disciplines. This course will use skills and concepts learned in biology (e.g. cell theory, molecular interaction), physics (e.g. atomic structure, types of radiation) and various mathematics courses (algebra, calculus). Independent research is a required component of this honors course.</p> <p><u>Instructional Material:</u> Contact the content director (Science and/or CTE Director)</p> <p><u>Prerequisites:</u> Successful completion of Biology, Chemistry and Geometry. Successful completion, or concurrently taking, Algebra II or an equivalent course. Concurrent enrollment in AP Physics I or II.</p> <p><u>What's Next?</u> N/A</p> <p>Teacher must be certified in science for the student to receive the science credit.</p> <p>130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20</p>	<p>13037200</p> <p>Grade level: 11 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>ANATOMY AND PHYSIOLOGY AB</b></p>	<p><b>HS02062 AB</b></p>
<p>In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.</p> <p><u>Instructional Material:</u> TBD</p> <p><u>Prerequisites:</u> Two (2) units of science (Biology, and Chemistry or Physics), one of which may be taken concurrently. Anatomy and Physiology may be taught by any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences.</p>	<p>13020600</p> <p>Grade level: 11 - 12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS ANATOMY AND PHYSIOLOGY AB</b></p>	<p><b>HS02062 ABH</b></p>
<p>Students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Anatomy and Physiology may be taught by any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester</p>	<p>13020600</p> <p>Grade level: 11 - 12</p>

credit hours in any combination of sciences. It may also be taught by a certified secondary science teacher. 19 TAC Chapter 231 <u>Instructional Material:</u> TBD <u>Prerequisites:</u> Two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently. <u>Course taught by locally certified gifted CTE teacher.</u>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT ANATOMY AND PHYSIOLOGY A</b> <b>TCC Course: Anatomy and Physiology I (BIOL 2401 and BIOL 2401 Lab)</b>	<b>HSD02062 A</b>
Anatomy and Physiology I is the first part of a two-course sequence. It is a study of the structure and function of human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis in on the interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. Content may be either integrated or specialized. Laboratory experiments in vertebrate physiology and the dissection of a mammal. <u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Two (2) units of science (biology, chemistry, physics) one of which may be taken concurrently. <u>TCC Prerequisites:</u> TSI compliant in Writing, Reading, and Mathematics. <u>TCC Co-requisites:</u> BIOL 2401 Lab <u>Early College High School Placement:</u> 10-12 Course taught by an approved adjunct instructor.	13020600  Grade level: 10 - 12 HS Credit(s): 0.5 College Hour(s): 4 hours <b>Tier I</b>
<b>DUAL CREDIT ANATOMY AND PHYSIOLOGY B</b> <b>TCC Course: Anatomy and Physiology II (BIOL 2402 and BIOL 2402 Lab)</b>	<b>HSD02062 B</b>
Continuation of BIOL-2401. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. <u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Two (2) units of science (biology, chemistry, physics) one of which may be taken concurrently. <u>TCC Prerequisites:</u> TSI compliant in Writing, Reading, and Mathematics. <u>TCC Co-requisites:</u> BIOL 2401 Lab <u>Early College High School Placement:</u> 10-12 Course taught by an approved adjunct instructor.	13020600  Grade level: 10 - 12 HS Credit(s): 0.5 College Hour(s): 4 hours <b>Tier I</b>
<b>ENGINEERING DESIGN AND PROBLEM SOLVING AB</b>	<b>ST37302 AB</b>
Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. Engineering Design and Problem Solving reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open ended, with real-world application. Students apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and understanding of career opportunities in engineering. This course is intended to stimulate students' ingenuity, intellectual talents, and practical skills in devising solutions to engineering design problems. Students use the engineering design process cycle to investigate, design, plan, create, and evaluate solutions. At the same time, this course fosters awareness of the social and ethical implications of technological development. <u>Instructional Material:</u> TBD <u>Prerequisites:</u> Two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently; Geometry and Algebra II. <u>Course taught by a certified secondary science teacher, or any CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</u> <u>Offered at:</u> Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA	13037300  Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<b>HONORS ENGINEERING DESIGN AND PROBLEM SOLVING AB</b>	<b>STH37302 ABH</b>
In this course, students conduct laboratory and field investigations, use scientific investigations, and make informed decisions using critical thinking and scientific problem solving. In addition to the course requirements of Engineering Design and Problem Solving, the student will produce projects in defined areas of engineering including buoyancy, stress construction and aerodynamics. In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. <u>Instructional Material:</u> <i>Engineering Fundamentals: An Introduction to Engineering, 4th Edition; Cengage Delmar Learning; ISBN: 9781439062081</i> <u>Prerequisites:</u> Two (2) units of science (Biology, and Chemistry or Physics), one (1) of which may be taken concurrently; Geometry and Algebra II <u>Course taught by locally certified gifted CTE teacher, certified secondary science teacher, or any CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</u> <u>Offered at:</u> Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal HS, Polytechnic, South Hills, Southwest, Trimble Technical, Western Hills, YMLA, YWLA	13037300  Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>

<p><b>MEDICAL MICROBIOLOGY AB</b></p> <p>Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents, and treatment options. Activities will include a variety of lab experiences designed to build microbiology lab skills and techniques. In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.</p> <p><u>Instructional Material:</u> <i>TBD</i></p> <p><u>Prerequisites:</u> Biology and Chemistry</p> <p><i>This course may be taught by a certified secondary science teacher or any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</i></p>	<p><b>HS02071 AB</b></p> <p>13020700</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS MEDICAL MICROBIOLOGY AB</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment or following scientific investigation procedures.</p> <p><u>Instructional Material:</u> <i>Microbiology, an Introduction, 6th Edition, Prentice/Hall</i></p> <p><u>Prerequisites:</u> Biology and Chemistry</p> <p><i>Course taught by locally certified gifted CTE teacher This course may be taught by a certified secondary science teacher or any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</i></p>	<p><b>HSH02071 ABH</b></p> <p>13020700</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>DUAL CREDIT MEDICAL MICROBIOLOGY T</b></p> <p><b>TCC Course: Microbiology for Non-Science Majors (BIOL 2420 and BIOL 2420 Lab)</b></p> <p>This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and cellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health.</p> <p><u>Instructional Material:</u> <i>NA</i></p> <p><u>FWISD Prerequisites:</u> Three (3) units of science (biology, Chemistry, Physics) one of which may be taken concurrently.</p> <p><u>TCC Prerequisites:</u> TSI compliant in Writing, Reading, and Mathematics.</p> <p><u>TCC Co-requisites:</u> BIOL 2420 Lab</p> <p><u>Early College High School Grade Placement:</u> 11-12</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>HSD02071 T</b></p> <p>13020700</p> <p>Grade level: 11 - 12 HS Credit(s): 0.5 College Hour(s): 4 hours <b>Tier I</b></p>
<p><b>PATHOPHYSIOLOGY AB</b></p> <p>In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.</p> <p><u>Instructional Material:</u> <i>Human Disease 4th edition; Cengage Learning; ISBN: 9781285065922</i></p> <p><u>Prerequisites:</u> Biology and Chemistry; Principles of Health Science</p> <p><i>4th year science credit.</i></p>	<p><b>HS20801 AB</b></p> <p>13020800</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS PATHOPHYSIOLOGY AB</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p> <p><u>Instructional Material:</u> <i>Human Disease 4th edition; Cengage Learning; ISBN: 9781285065922</i></p> <p><u>Prerequisites:</u> Biology and Chemistry; Principles of Health Science</p> <p><i>4th year science credit.</i></p> <p><i>Course taught by locally certified gifted CTE teacher.</i></p>	<p><b>HSH20801 AB</b></p> <p>13020800</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>ADVANCED ANIMAL SCIENCE AB</b></p> <p>In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. Teacher must be certified in Agriculture and highly qualified or meet HOUSE in science.</p> <p><u>Instructional Material:</u> <i>Contact CTE director</i></p> <p><u>Prerequisites:</u> two (2) units of science (Biology, and Chemistry or Physics) one of which may be taken concurrently. Livestock Production; Equine Science, or Small Animal Management</p> <p><i>Offered only at: Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AG00702 AB</b></p> <p>13000700</p> <p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS ADVANCED ANIMAL SCIENCE AB</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Teacher must be certified in Agriculture and highly qualified or meet HOUSE in science.</p>	<p><b>AGH00702 AB</b></p> <p>13000700</p>

<p><u>Instructional Material:</u> <i>Contact CTE director</i></p> <p><u>Prerequisites:</u> two (2) units of science (Biology, and Chemistry or Physics), one of which may be taken concurrently. Livestock Production or Equine Science</p> <p><i>Course taught by locally certified gifted CTE teacher.</i></p> <p><i>Offered only at: Arlington Heights and Diamond Hill-Jarvis</i></p>	<p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>DUAL CREDIT ADVANCED PLANT AND SOIL SCIENCE A</b> <b>TCC Course: Soil Science (AGCR 2418)</b></p>	<p><b>AGD02102 A</b></p>
<p>Introduction to physical, chemical, and biological properties of soils. Topics include the relationship between crops and soils, conservation of soil and water resources, and the economic use of fertilizer.</p> <p><u>FWISD Prerequisites:</u> Three (3) units of science, one (1) of which may be taken concurrently. Horticulture Science I and/or Landscape Design and Turf Management</p> <p><u>Instructional Material:</u> NA</p> <p><i>Course taught by an approved adjunct instructor.</i></p> <p><i>Offered only at: Marine Creek Collegiate HS</i></p>	<p>13002100</p> <p>Grade level: 12 HS Credit(s): 0.5 College Hour(s): 4 hours <b>Tier I</b></p>
<p><b>DUAL CREDIT ADVANCED PLANT AND SOIL SCIENCE B</b> <b>TCC Course: Soil Fertility and Fertilizers (HALT 2318)</b></p>	<p><b>AGD02102 B</b></p>
<p>An in-depth study of the chemistry, soil interaction, plant uptake and utilization of essential plant nutrients. Topics include deficiency and toxicity symptoms, and the selection application, and characteristics of fertilizer materials.</p> <p><u>FWISD Prerequisites:</u> Three (3) units of science, one (1) of which may be taken concurrently. Horticulture Science I and/or Landscape Design and Turf Management</p> <p><u>TCC Recommended Prerequisites:</u> HALT 1301</p> <p><i>Course taught by an approved adjunct instructor.</i></p> <p><i>Offered only at: Marine Creek Collegiate HS</i></p>	<p>13002100</p> <p>Grade level: 12 HS Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b></p>
<p><b>FOOD SCIENCE AB (FOODSC1 AB)</b></p>	<p><b>HT23002 AB</b></p>
<p>In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Upon completion of this course, students will be prepared to take the ServSafe Food Safety Certification Exam. The course should be taught in a kitchen laboratory with some industrial equipment to provide the students with real-world experience in commercial foods. CTE teacher should meet HOUSE NCLB qualifications or can be science certified.</p> <p><u>Instructional Material:</u> TBD</p> <p><u>Prerequisites:</u> Three units of science, including chemistry and biology, and Culinary Arts I or Hospitality Services</p> <p><i>Offered only at: North Side, Paschal, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p>13023000</p> <p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS FOOD SCIENCE AB (FOODSC1 AB/H)</b></p>	<p><b>HTH23002 AB</b></p>
<p>In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. CTE teacher should meet HOUSE NCLB qualifications or can be science certified.</p> <p><u>Instructional Material:</u> <i>Principles of Food Science, Goodheart-Willcox, ISBN: 9781605256092</i></p> <p><u>Prerequisites:</u> Three units of science, including chemistry and biology, and Culinary Arts I or Hospitality Services</p> <p><i>Course taught by locally certified gifted CTE teacher</i></p> <p><i>Offered only at: North Side, Paschal, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p>13023000</p> <p>Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>FORENSIC SCIENCE AB (FORENSCI AB)</b></p>	<p><b>LA29502 AB</b></p>
<p>Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.</p> <p><u>Instructional Material:</u> TBD</p> <p><u>Prerequisites:</u> Two (2) units of science (Biology, and Chemistry or Physics) one of which may be taken concurrently.</p> <p><i>Teacher should be certified in any of the following: Health Science Technology, T &amp; I/Law Enforcement, or secondary science.</i></p>	<p>13029500</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS FORENSIC SCIENCE AB (FORENSCI AB/H)</b></p>	<p><b>LAH29502 AB</b></p>
<p>In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p> <p><u>Instructional Material:</u> TBD</p> <p><u>Prerequisites:</u> Two (2) units of science (Biology, and Chemistry or Physics) one of which may be taken concurrently.</p> <p><i>Course taught by locally certified gifted CTE teacher. Teacher should be certified in any of the following: Health Science Technology, T &amp; I/Law Enforcement, or secondary science.</i></p>	<p>13029500</p> <p>Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>

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# ***SOCIAL STUDIES***

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# SOCIAL STUDIES GRADUATION REQUIREMENTS

ALL STUDENTS ARE REQUIRED to pass US History EOC

## FOUNDATION PLANS

**All Foundation Plans (22 & 26 credits) Require 4 Social Studies credits**

**Four credits must consist of:**

**3 credits of the following:**

- World Geography  
OR AP Human Geography  
OR Dual Credit World Geography
- U.S. History Since 1877  
OR AP U.S. History  
OR Dual Credit U.S. History  
OR OnRamps U.S. History
- U.S. Government (.5 credit)  
OR AP U.S. Government (.5 credit)  
OR Dual Credit U.S. Government (.5 credit)
- Economics (.5 credit)  
OR Personal Financial Literacy and Economics (.5 credit)  
OR AP Macroeconomics (.5 credit)  
OR AP Microeconomics (.5 credit)  
OR Dual Credit Economics (.5 credit)

**1 credit selected from the following:**

- World History  
OR AP Modern World History  
OR Dual Credit World History
- Ethnic Studies course pairing  
African-American Studies (.5 credit)  
AND  
STSS: Latino/a Studies (.5 credit)

**Possible Endorsement Opportunities:**

- Multidisciplinary
- Arts & Humanities

# Social Studies, Government, and Economics

	Traditional		Honors		Advanced Placement (AP) / Dual Credit (DC)	
<b>6th</b>	Gr 6 Social Studies: 0331	None	Honors Gr 6 Social Studies: 0325	None	Honors Gr 6 Social Studies: 0325	None
<b>7th</b>	Gr 7 Social Studies: 0336	None	Honors Gr 7 Social Studies: 0327	None	Honors Gr 7 Social Studies: 0327	None
<b>8th</b>	Gr 8 Social Studies: 0337	STAAR Gr 8	Honors Gr 8 Social Studies: 0329	STAAR Gr 8	Honors Gr 8 Social Studies: 0329	STAAR Gr 8
<b>9th</b>	World Geography: 8011	None	Honors World Geography: 8009	None	AP Human Geog: 8003 or DC World Geog: 8006	PSAT AP Exam
<b>10th</b>	World History: 8033 or Ethnic Studies: 8041T & 8045T	PSAT	Honors World History: 8035 or Ethnic Studies: 8041T & 8045T	PSAT	AP Modern World Hist: 8037 or DC World Hist: 8034	PSAT SAT AP Exam
<b>11th</b>	US History Since 1877: 8056 SS Electives	PSAT SAT US Hist EOC	Honors US History Since 1877: 8066 AP/DC SS Electives	SAT US Hist EOC	AP US Hist: 8215 or DC US Hist: 8042 or OnRamps US History: 8049 AP/DC SS Electives	SAT US Hist EOC AP Exam
<b>12th</b>	US Gov & Econ or PFLECO: 8076T & 8096T or 8148T SS Electives	PSAT SAT	US Gov & Econ or PFLECO: 8076T & 8096T or 8148T AP/DC SS Electives	SAT	AP US Gov & AP Econ: 8135T & 8098T or DC US Gov & DC Econ: 8079T & 8094T AP/DC SS Electives	Exams vary by course

## PERSONAL FINANCIAL LITERACY AND ECONOMICS T

**8148T**

This course emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives. Approximately two-thirds of instructional time is dedicated to personal financial literacy and one-third to economics content. This is distinct from ECOFE (8096T) where approximately one-third of instructional time is dedicated to personal financial literacy and two-thirds to economics content. This course satisfies the Economics high school graduation requirement.

03380083

Grade level: 11 – 12  
Credit(s): 0.5  
College Hour(s): NA  
**Tier III**

Instructional Material: *Personal Financial Literacy, Savvas, 2024, ISBN: 9780138114312.*

Prerequisites: District Recommendation: World Geography Studies, World History Studies, and US History

What's Next? Government if Personal Financial Literacy and Economics taken first; and any elective social studies course that can be applied toward a humanities endorsement. Due to redundant TEKS, students cannot receive credit in both Economics and Personal Financial Literacy (8148T) and Personal Financial Literacy (8145T).

## WORLD GEOGRAPHY STUDIES AB

**8011 AB**

## SHELTERED WORLD GEOGRAPHY STUDIES AB – NP

**8008 AB**

## SHELTERED WORLD GEOGRAPHY STUDIES AB

**8010 AB**

## WORLD GEOGRAPHY STUDIES AB

**80115 AB**

This course is a comprehensive examination of people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. A significant portion of this course centers around the physical processes that shape, patterns in the physical environment; the characteristics of major land forms, climates and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; and the distribution and movement of world population. This course meets the state recommended graduation requirement.

03320100

Grade level: 9 – 12  
Credit(s): 1  
College Hour(s): NA  
**Tier III**

<u>Instructional Material:</u> 1402 – Texas World Geography, McGraw-Hill, 2014, ISBN: 0021380996	
<u>Prerequisites:</u> None	
<u>What's Next?</u> AP or Honors or World History Studies or Dual Credit World History Studies	
All Newcomer Program teachers must be content and ESL certified.	
<b>HONORS WORLD GEOGRAPHY STUDIES AB</b>	<b>8009 AB</b>
<b>SHELTERED HONORS WORLD GEOGRAPHY STUDIES AB</b>	<b>8024 AB</b>
Description of course: Honors World Geography will present the student with a general understanding of cultural geography, physical geography, and human geography while preparing the student for AP modern world history by incorporating AP skills and habits of mind as well as some geography-driven content. This course meets the state recommended graduation requirement.	03320100 Grade level: 9 Credit(s): 1
<u>Instructional Material:</u> 1402 – Texas World Geography, McGraw-Hill, 2014, ISBN: 0021380996	
<u>Prerequisites:</u> Student interest	
<u>What's Next?</u> AP or Honors or World History Studies or Dual Credit World History Studies	
<b>DUAL CREDIT WORLD GEOGRAPHY STUDIES A</b>	<b>8006 A</b>
<b>TCC Course: Physical Geography (GEOG 1301)</b>	
This course introduces students to the processes that drive Earth's physical systems. Students will explore the relationships among these physical systems, with emphasis on weather and climate, water, ecosystems, geologic processes and landform development, and human interactions with the physical environment.	03320100 Grade level: N/A
<u>Instructional Material:</u> TCC Course: Physical Geography (GEOG 1301)	
<u>Prerequisites:</u> None	
Early College High School Grade Placement 9-12.	
Course taught by an approved adjunct instructor.	
<i>Combined with GEOG 1302, this course meets the one-year world geography social studies graduation requirement.</i>	
<b>DUAL CREDIT WORLD GEOGRAPHY STUDIES B</b>	<b>8006 B</b>
<b>TCC Course: Geography (GEOG 1302)</b>	
This course introduces students to fundamentals concepts, skills, and practices of human geography. Place, space, and scale serve as a framework for understanding patterns of human experience. Topics for discussion may include globalization, population and migration, culture, diffusion, political and economic systems, language, religion, gender, and ethnicity.	03320100 Grade level: N/A Credit(s): 0.5
<u>Instructional Material:</u> TCC Course: Human Geography (GEOG 1302)	
<u>Prerequisites:</u> Dual Credit World Geography Studies A	
Early College High School Grade Placement 9-12.	
Course taught by an approved adjunct instructor.	
<i>Combined with GEOG 1301, this course meets the one-year world geography social studies graduation requirement.</i>	
<b>AP HUMAN GEOGRAPHY AB</b>	<b>8003 AB</b>
AP Human Geography introduces students to the rigorous and systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ special concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about methods and tools geographers use in their science and practice. Prepares students to perform successfully on the AP Human Geography examination.	A3360100
<u>Instructional Material:</u> Human Geography for the AP course, John Wiley and Sons, 2020, ISBN: 9781119623489	
<u>Prerequisites:</u> Met standard on Grade 8 Social Studies STAAR; and student interest	
<u>What's Next?</u> AP or Honors or World History Studies or Dual Credit World History Studies	
Successful Completion of this course substitutes for World Geography as a graduation requirement. Elective credit Cannot be awarded for 8003 AB. Students seeking elective credit for APHG should enroll in 8005T.	
<b>AP HUMAN GEOGRAPHY T</b>	<b>8005 T</b>
AP Human Geography introduces students to the rigorous and systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ special concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about methods and tools geographers use in their science and practice.	A3360100
<u>Instructional Materials:</u> Human Geography for the AP course, John Wiley and Sons, 2020, ISBN: 9781119623489	
<u>Prerequisites:</u> World Geography Studies or Honors World Geography Studies; World History Studies or Honors World History or AP Modern World History; completion of (or taken concurrently) US History Studies or Honors or AP US History Studies; student interest	
<u>What's Next?</u> Any elective social studies course that can be applied toward a humanities endorsement	
8005T is a .5 credit elective course. Students who successfully completed AP Human Geography AB are not eligible to enroll in this course.	
<b>WORLD HISTORY STUDIES AB</b>	<b>8033 AB</b>
<b>SHELTERED WORLD HISTORY STUDIES AB – NP</b>	<b>8027 AB</b>
<b>SHELTERED WORLD HISTORY STUDIES AB</b>	<b>8029 AB</b>
<b>WORLD HISTORY STUDIES AB</b>	<b>80335 AB</b>
Examines human history with emphasis on early civilizations (non-western), Western, and other regions. Focuses on cultural experiences as related to history, literature, art, music, and philosophy. Students compare and analyze ways of life and cultural patterns that reflect the diversity and commonality of human experiences and develop an	03340400 03340405 (SPEC ED)

understanding of how these patterns occur.	Grade level: 9 – 12
<u>Instructional Material:</u> 1411 – <i>Texas World History, McGraw-Hill, 2014, ISBN: 007660604X</i>	Credit(s): 1
<u>Prerequisites:</u> District Recommendation: World Geography Studies or Honors World Geography Studies; and student interest.	College Hour(s): NA
<u>What's Next?</u> AP or Honors or United States History Studies or Dual Credit United States History	<b>Tier III</b>
All Newcomer Program teachers must be content and ESL certified.	
<b>HONORS WORLD HISTORY STUDIES AB</b>	<b>8035 AB</b>
<b>SHELTERED HONORS WORLD HISTORY STUDIES AB</b>	<b>8032 AB</b>
Examines human history with emphasis on early civilizations (non-western), Western, and other regions. Focuses on cultural experiences as related to history, literature, art, music, and philosophy. Students compare and analyze ways of life and cultural patterns that reflect the diversity and commonality of human experiences and develop an understanding of how these patterns occur. Problem-solving skills are also emphasized. This course builds the foundation for successful participation in AP coursework.	03340400
<u>Instructional Material:</u> 1411 – <i>Texas World History, McGraw-Hill, 2014, ISBN: 007660604X</i>	Grade level: 9 – 12
<u>Prerequisites:</u> District Recommendation: Honors World Geography Studies or World Geography Studies; and student interest	Credit(s): 1
<u>What's Next?</u> AP or Honors or United States History Studies or Dual Credit United States History	College Hour(s): NA
<i>This course meets the one-year world history social studies graduation requirement.</i>	<b>Tier II</b>
<b>DUAL CREDIT WORLD HISTORY STUDIES A</b>	<b>8034 A</b>
<b>TCC Course: World Civilization I (HIST 2321)</b>	
<b>TWU Course: World History to 1648 (HIS 2301)</b>	
A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. Examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange.	03340400
<u>Instructional Material:</u> TCC Course: <i>World Civilization I (HIST 2321)</i>	Grade level: N/A
<u>FWISD Prerequisites:</u> None	Credit(s): 0.5
<u>TCC Prerequisites:</u> Early College High School Grade Placement 9-12	College Hour(s): 3 hours
<u>TWU Prerequisites:</u> Only offered at Dunbar	<b>Tier I</b>
Course taught by an approved adjunct instructor.	
<i>Combined with HIST 2322, this course meets the one-year world history social studies graduation requirement.</i>	
<b>DUAL CREDIT WORLD HISTORY STUDIES B</b>	<b>8034 B</b>
<b>TCC Course: World Civilization II (HIST 2322)</b>	
<b>TWU Course: World History since 1648 (HIS 2303)</b>	
A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. Examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction and impact of global exchange.	03340400
<u>Instructional Material:</u> TCC Course: <i>World Civilization II (HIST 2322)</i>	Grade level: N/A
<u>FWISD Prerequisites:</u> Dual Credit World History Studies A	Credit(s): 0.5
<u>TCC Prerequisites:</u> Early College High School Grade Placement 9-12	College Hour(s): 3 hours
<u>TWU Prerequisites:</u> HIS 2301; Only offered at Dunbar	<b>Tier I</b>
Course taught by an approved adjunct instructor.	
<i>Combined with HIST 2321, this course meets the one-year world history social studies graduation requirement.</i>	
<b>AP MODERN WORLD HISTORY AB</b>	<b>8037 AB</b>
Formerly titled "AP World History," this course presents a comprehensive history of the world required to meet the state's World History Studies graduation requirement, while giving particular emphasis to College Board's AP Modern World History timespan (1200 CE to present). This comprehensive experience allows students to view history in a global and integrated way and affords them the opportunity to gain a Distinguished Achievement measure as well as college credit by successful completion of the associated AP exam in May. Major facets of the course include the impact of interaction among major societies, relationship of change and continuity, impact of technology and demography on people and the environment, systems of social structure and gender structure, cultural and intellectual developments and interactions, and changes in functions and structures of states, and in attitudes toward states and political identities, including the rise of the nation-state.	A3370100
<u>Instructional Material:</u> <i>Stearns, World Civilizations: The Global Experience, Revised AP edition. 8th edition. Pearson, 2021, ISBN: 9780135702727</i>	Grade level: 9 – 12
<u>Prerequisites:</u> District Recommendations: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; and student interest	Credit(s): 1
<u>What's Next?</u> AP or Honors or United States History Studies or Dual Credit United States History	College Hour(s): NA
<i>This course meets the one-year world history social studies graduation requirement.</i>	<b>Tier I</b>

<b>UNITED STATES HISTORY STUDIES SINCE 1877 AB</b>	<b>8056 AB</b>
<b>SHELTERED UNITED STATES HISTORY STUDIES SINCE 1877 AB – NP</b>	<b>8050 AB</b>
<b>SHELTERED UNITED STATES HISTORY STUDIES SINCE 1877 AB</b>	<b>8052 AB</b>
<b>UNITED STATES HISTORY STUDIES SINCE 1877 AB</b>	<b>80565 AB</b>
Students study the history of the United States since Reconstruction to the present. Content focuses on the political, economic, and social events and issues related to policies of the Cold War and post-Cold War eras; and reform movements including civil rights. Students examine the impact of geographic factors on major events; analyze causes and effects of the Great Depression and examine the dynamic relationship of the three branches of the federal government. Students will be required to take the U.S. History End of Course (EOC) exam in this course.	03340100 03340105 (SPEC ED)
<u>Instructional Material:</u> <i>1422 – Texas U.S. History, McGraw-Hill, 2015, ISBN: 0076608581</i>	Grade level: 9 - 12
<u>Prerequisites:</u> District Recommendation: World Geography and World History	Credit(s): 1
<u>What's Next?</u> AP or Government, Economics, or Dual Credit Government, Economics, and any elective social studies course that can be applied toward a humanities endorsement.	College Hour(s): NA
<i>Students will take the US History EOC.</i>	<b>Tier III</b>
All Newcomer Program teachers must be content and ESL certified.	
<b>HONORS UNITED STATES HISTORY STUDIES SINCE 1877 AB</b>	<b>8066 AB</b>
<b>SHELTERED HONORS UNITED STATES HISTORY STUDIES SINCE 1877 AB</b>	<b>8068 AB</b>
Honors United States History extends the study of United States History to involve a chronological history from 1877 to present. To support the teaching a variety of rich primary and secondary source material is used so that students are studying and learning history as historians.	03340100
<u>Instructional Material:</u> <i>1422 – Texas U.S. History, McGraw-Hill, 2015, ISBN: 0076608581</i>	Grade level: 9 – 12
<u>Prerequisites:</u> District Recommendation: Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History; and student interest	Credit(s): 1
<u>What's Next?</u> AP or Government, Economics, or Dual Credit Government, Economics; and any elective social studies course that can be applied toward a humanities endorsement	College Hour(s): NA
<i>Students will take the US History EOC.</i>	<b>Tier II</b>
<b>AP UNITED STATES HISTORY AB</b>	<b>8215 AB</b>
Extends the study of United States history to involve the full sweep of chronological history from discovery to present. Uses college-level material and parallel historic readings to provide the student's information and skills that will enable them to perform successfully on the advanced placement test and/or in their college history classes. This course may be used to meet either the course requirement for U.S. History or state graduation or elective course requirements.	A3340100
<u>Instructional Material:</u> <i>Give Me Liberty! An American History, Sixth AP Edition, W.W. Norton &amp; Company, 2020, ISBN: 978-0393697018</i>	Grade level: 10 – 12
<u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History; and student interest	Credit(s): 1
<u>What's Next?</u> AP or Government, Economics, or Dual Credit Government, Economics; and any elective social studies course that can be applied toward a humanities endorsement	College Hour(s): NA
<i>If students are using this course as a substitution for regular or Honors US History, they will take the US History EOC.</i>	<b>Tier I</b>
<b>DUAL CREDIT UNITED STATES HISTORY SINCE 1877 A</b>	<b>8042 A</b>
<b>TCC Course: United States History I to 1876 (HIST 1301)</b>	
<b>TWU Course: Early American History HIS 2321</b>	
A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.	03340100
<u>Instructional Material:</u> <i>TCC Course: United States History I to 1876 (HIST 1301)</i>	Grade level: 11 - 12
<u>FWISD Prerequisites:</u> None	Credit(s): 0.5
<u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading	College Hour(s): 3 hours
Early College High School Grade Placement 10-12	<b>Tier I</b>
<u>TWU Prerequisites:</u> Only offered at Dunbar	
Course taught by an approved adjunct instructor.	
<i>If students are using this dual credit course combination (8042A &amp; 8042B) as a substitution for the regular or Honors US History, they will take the US History EOC.</i>	
<b>DUAL CREDIT UNITED STATES HISTORY SINCE 1877 B</b>	<b>8042 B</b>
<b>TCC Course: United States History II Since 1876 (HIST 1302)</b>	
<b>TWU Course: Modern American History HIS 2324</b>	
A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History examines industrialization, immigration, world wars, the Great Depression, and the Cold War and post-Cold War eras. Themes that may be addressed include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.	03340100

<p><u>Instructional Material:</u> TCC Course: <i>United States History II Since 1876 (HIST 1302)</i></p> <p><u>FWISD Prerequisites:</u> Dual Credit United States History Since 1877 A</p> <p><u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading Early College High School Grade Placement 10-12</p> <p><u>TWU Prerequisites:</u> HIS 2321; Only offered at Dunbar Course taught by an approved adjunct instructor. <i>If students are using this dual credit course combination (8042A &amp; 8042B) as a substitution for the regular or Honors US History, they will take the US History EOC.</i></p>	<p>Grade level: 11 – 12 Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b></p>
<p><b>OnRamps UNITED STATES HISTORY 1492-1865 A</b></p> <p>In this first of two sequential college American history courses, students study significant themes in US history to uncover the range and depth of the American story. Using lectures, primary and secondary readings, videos, maps, and other graphics, students work both independently and collaboratively to develop the critical thinking skills to evaluate the historical record. This course surveys from the colonial beginnings through the Civil War, and Course B considers the post-Civil War era to the end of the 20th century. Exams include essay questions that require students to craft well-written narratives and arguments that set events in historical context, engage the complexity of cause and consequence, and make connections that reveal the dynamic of change over time. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.</p>	<p><b>8049 A</b> A3340100</p>
<p><u>Instructional Material:</u> Selected and provided by the University of Texas at Austin</p> <p><u>Prerequisites:</u> FWISD: World Geography, World History preferred UT Austin OnRamps: Concurrent or completed English II</p> <p><u>What's Next?</u> OnRamps US History Since 1865 <i>If students are using this course combination (8049A &amp; 8049B) as a substitution for the regular or Honors US History, they will take the US History EOC.</i></p>	<p>Grade level: 11 – 12 Credit(s): .5 College Hour(s): 3 hours <b>Tier I</b></p>
<p><b>OnRamps UNITED STATES HISTORY SINCE 1865 B</b></p> <p>In these second of two sequential college American history courses, students study significant themes in US history to uncover the range and depth of the American story. Using lectures, primary and secondary readings, videos, maps, and other graphics, students work both independently and collaboratively to develop the critical thinking skills to evaluate the historical record. Course A surveys from the colonial beginnings through the Civil War, and this course considers the post-Civil War era to the end of the 20th century. Exams include essay questions that require students to craft well-written narratives and arguments that set events in historical context, engage the complexity of cause and consequence, and make connections that reveal the dynamic of change over time. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.</p>	<p><b>8049 B</b> A3340100</p>
<p><u>Instructional Material:</u> Selected and provided by the University of Texas at Austin</p> <p><u>Prerequisites:</u> FWISD: World Geography, World History preferred UT Austin OnRamps: Concurrent or completed English II</p> <p><u>What's Next?</u> AP or Government, Economics, or Dual Credit Government, Economics; and any elective social studies course that can be applied toward a humanities endorsement <i>If students are using this course combination (8049A &amp; 8049B) as a substitution for the regular or Honors US History, they will take the US History EOC.</i></p>	<p>Grade level: 11 - 12 Credit(s): .5 College Hour(s): 3 hours <b>Tier I</b></p>
<p><b>UNITED STATES GOVERNMENT T</b></p> <p>The focus of this course is on the principles and beliefs upon which the United States was founded, and on the structure, functions, and powers of government at the national, state, and local levels. Major emphasis is given to the U.S. Constitution, its underlying principles, beliefs, and the form of government it created.</p>	<p><b>8076 T</b> 03330100</p>
<p><u>Instructional Material:</u> <i>1445 – Texas United States Government, McGraw-Hill, 2015, ISBN: 0021357994</i></p> <p><u>Prerequisites:</u> District Recommendation: World Geography Studies; World History Studies; and US History Studies</p> <p><u>What's Next?</u> Economics if Government taken first; and any elective social studies course that can be applied toward a humanities endorsement</p>	<p>Grade level: 11 - 12 Credit(s): 0.5 College Hour(s): NA <b>Tier III</b></p>
<p><b>DUAL CREDIT UNITED STATES GOVERNMENT T</b></p> <p><b>TCC Course: Federal Government (GOVT 2305)</b></p> <p><b>TWU Course: American Government (GOV 2311)</b></p> <p>Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.</p>	<p><b>8079 T</b> 03330100</p>
<p><u>Instructional Material:</u> TCC Course: <i>Federal Government (GOVT 2305)</i></p> <p><u>FWISD Prerequisites:</u> None</p> <p><u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading</p> <p><u>TWU Prerequisites:</u> Only offered at Dunbar Early College High School Grade Placement 10-12 Course taught by an approved adjunct instructor. <i>This course may be used to meet the Government social studies graduation requirement.</i></p>	<p>Grade level: 11 - 12 Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b></p>

<b>AP UNITED STATES GOVERNMENT AND POLITICS T</b>	<b>8135 T</b>
Gives attention to national and state governmental structures. Individual rights are stressed throughout as necessary foundations for a successful, functioning democratic republic. Prepares students to perform successfully on the AP Examination.	A3330100
<u>Instructional Material:</u> <i>Edwards, Government in America: People, Politics, and Policy, 2020, ISBN:978-0136966456</i>	Grade level: 11 – 12
<u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History Studies; completion of (or taken concurrently) AP or Honors or Dual Credit US History; and student interest	Credit(s): 0.5
<u>What's Next?</u> AP Microeconomics or Macroeconomics or Economics with an Emphasis on the Free Enterprise System T if AP United States Government taken first; and any elective social studies course that can be applied toward a humanities endorsement	College Hour(s): NA
This course may be used to meet the course requirement in U.S. Government for state graduation.	<b>Tier I</b>
<b>AP COMPARATIVE GOVERNMENT AND POLITICS T</b>	<b>8078 T</b>
Provides qualified students an opportunity to engage in an in-depth examination of various political systems. Prepares students to take the AP examination, thus providing an additional AP testing opportunity for students seeking the Distinguished Achievement Diploma.	A3330200
<u>Instructional Material:</u> <i>9541 – Comparative Politics Domestic Responses to Global Challenges 7E AP Edition, Cengage Learning, ISBN: 9781305335899</i>	Grade level: 11 – 12
<u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History Studies; completion of (or taken concurrently) AP or Honors or Dual Credit US History; AP Government or Government T; and student interest	Credit(s): 0.5
<u>What's Next?</u> Any elective social studies course that can be applied toward a humanities endorsement	College Hour(s): NA
<i>This course may be used to meet only elective course requirements for state graduation. Will not substitute for U. S. Government requirement.</i>	<b>Tier I</b>
<b>AP EUROPEAN HISTORY AB</b>	<b>8219 AB</b>
The course examines the history of Europe from 1450 to the present and focuses on these interrelated historical themes: political/diplomatic, social/economic, and intellectual/cultural. This course provides students the opportunity to complete the equivalent of the introductory college course.	A3340200
<u>Instructional Material:</u> <i>Kagan, The Western Heritage Since 1300, 12th Edition, AP Edition, 2020, Pearson, ISBN: 978-0135258514</i>	Grade level: 11 – 12
<u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History; completion of (or taken concurrently) AP or Honors or Dual Credit US History; and student interest	Credit(s): 1
<u>What's Next?</u> Any elective social studies course that can be applied toward a humanities endorsement	College Hour(s): NA
<i>State elective credit; will not substitute for World History.</i>	<b>Tier I</b>
<b>ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM AND ITS BENEFITS T</b>	<b>8096 T</b>
The focus and content of this course is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those principles and practices in other world economies. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Students examine various types of business ownership and market structures, the rights and responsibilities of consumers and businesses and basic concepts of consumer economics. Approximately one-third of instructional time is dedicated to personal financial literacy and two-thirds to economics content. This is distinct from PFLECO (XXXXT) where approximately two-thirds of instructional time is dedicated to personal financial literacy and one-third to economics content.	03310300
<u>Instructional Material:</u> <i>1452 – Texas Economics, McGraw-Hill, 2015, ISBN: 0021381119</i>	Grade level: 11 – 12
<u>Prerequisites:</u> District Recommendation: World Geography Studies, World History Studies, and US History	Credit(s): 0.5
<u>What's Next?</u> Government if Economics taken first; and any elective social studies course that can be applied toward a humanities endorsement.	College Hour(s): NA
	<b>Tier III</b>
<b>DUAL CREDIT ECONOMICS WITH EMPHASIS ON THE FREE ENTERPRISE SYSTEM AND ITS BENEFITS T</b>	<b>8094 T</b>
<b>TCC Course: Principles of Macroeconomics (ECON 2301)</b>	
An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. Emphasis on the U.S. economy. Required for business and economics majors.	03310300
<u>Instructional Material:</u> <i>TCC Course: Principles of Macroeconomics (ECON 2301)</i>	Grade level: 11 - 12
<u>FWISD Prerequisites:</u> United States History I AB	Credit(s): 0.5
Early College High School Grade Placement 10-12	College Hour(s): 3 hours
Course taught by an approved adjunct instructor.	<b>Tier I</b>
<b>AP MACROECONOMICS T</b>	<b>8098 T</b>
Presents a one-semester analysis of economic theory. This course deals with major economic goals and the policy tools used to implement them. Prepares students to perform successfully on the AP Examination.	A3310200
<u>Instructional Material:</u> <i>Krugman's Economics for the AP Course, 3rd Edition, Bedford, Freeman, and Worth, 2019, ISBN: 978-1319113278</i>	Grade level: 11 – 12
	Credit(s): 0.5

<p><u>Prerequisites:</u> District Recommendations: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History; completion of (or taken concurrently) AP or Honors or Dual Credit US History; and student interest</p> <p><u>What's Next?</u> AP Microeconomics or any elective social studies course that can be applied toward a humanities endorsement</p> <p><i>This course may be used to meet either the course requirement for Economics for state graduation or elective course requirements.</i></p>	<p>College Hour(s): NA <b>Tier I</b></p>
<p><b>AP MICROECONOMICS T</b></p>	<p><b>8099 T</b></p>
<p>Presents a one-semester analysis of the elements of economic theory. This course deals with product and factor price determination in a market economy. Prepares students to perform successfully on the AP Examination.</p>	<p>A3310100</p>
<p><u>Instructional Material:</u> <i>Krugman's Economics for the AP Course, 3rd Edition, Bedford, Freeman, and Worth, 2019, ISBN: 978-1319113278</i></p> <p><u>Prerequisites:</u> District Recommendations: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History; completion of (or taken concurrently) AP or Honors or Dual Credit US History; and student interest</p> <p><u>What's Next?</u> Any elective social studies course that can be applied toward a humanities endorsement.</p> <p><i>This course may be used to meet either the course requirement for Economics for state graduation or elective course requirements.</i></p>	<p>Grade level: 11 – 12 Credit(s): 0.5 College Hour(s): NA <b>Tier I</b></p>
<p><b>SOCIOLOGY T</b></p>	<p><b>8117 T</b></p>
<p>Offers students opportunities to study individual and group social patterns as a means for gaining insight into the interrelations among people and societal institutions.</p>	<p>03370100</p>
<p><u>Instructional Material:</u> <i>1480 – Sociology: The Study of Human Relationships, Holt McDougal, ISBN: 9780544344037</i></p> <p><u>Prerequisites:</u> District Recommendation: World Geography Studies; World History Studies; US History (or concurrent enrollment); and student interest</p> <p><u>What's Next?</u> Any elective social studies course that can be applied toward a humanities endorsement.</p> <p><i>This course may be used to meet only elective course requirements for state graduation.</i></p>	<p>Grade level: 11 – 12 Credit(s): 0.5 College Hour(s): NA <b>Tier III</b></p>
<p><b>DUAL CREDIT SOCIOLOGY T</b></p> <p><b>TCC Course: Introduction to Sociology (SOCI 1301)</b></p> <p><b>TWU Course: Introduction to Sociology (SOC 2301)</b></p>	<p><b>8115 T</b></p>
<p>The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance.</p>	<p>03370100</p>
<p><u>Instructional Material:</u> <i>TCC Course: Introduction to Sociology (SOCI 1301)</i></p> <p><u>FWISD Prerequisites:</u> None</p> <p><u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading</p> <p>Early College High School Grade Placement 9-12</p> <p><u>TWU Prerequisites:</u> Only offered at Dunbar</p> <p>Course taught by an approved adjunct instructor.</p> <p><i>This course may be used to meet only elective course requirements for state graduation.</i></p>	<p>Grade level: 11-12 Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b></p>
<p><b>PSYCHOLOGY T</b></p>	<p><b>8125 T</b></p>
<p>Involves an exploration into human behavior with the understanding that individual adjustment in a compact and complex world is essential.</p>	<p>03350100</p>
<p><u>Instructional Material:</u> <i>1470 – Texas Psychology, McGraw-Hill, 2015 ISBN: 0021394946 ISBN: 0078285712</i></p> <p><u>Prerequisites:</u> District Recommendation: World Geography Studies; World History Studies, US History (or concurrent enrollment); and student interest</p> <p><u>What's Next?</u> Any elective social studies course that can be applied toward a humanities endorsement.</p> <p><i>This course may be used to meet only elective course requirements for state graduation.</i></p>	<p>Grade level: 11 – 12 Credit(s): 0.5 College Hour(s): NA <b>Tier III</b></p>
<p><b>AP PSYCHOLOGY T</b></p>	<p><b>8127 T</b></p>
<p>Extends the study of psychology to include an in-depth approach to both human and animal behavior through experimental, correlation, and clinical research. Students have opportunities to apply statistical methods for the interpretation of data. Prepares students to perform successfully on the AP Examination.</p> <p><i>The course pairing 8146 and 8127 prepares students for the AP Psychology exam by teaching the curriculum over two semesters. When campuses pair 8146 and 8127, students must be enrolled in both courses.</i></p>	<p>A3350100</p>
<p><u>Instructional Material:</u> <i>Myers' Psychology for AP Course, 3rd Edition. Bedford, Freeman and Worth Publishing, 2018, ISBN: 978-1319070502</i></p> <p><u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; or, concurrent enrollment in AP or Honors or Dual Credit World History Studies; and student interest</p> <p><u>What's Next?</u> Honors Social Studies Research Methods in Psychology (8146 TH) or Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement.</p> <p><i>This course may be used to meet only elective course requirements for state graduation.</i></p>	<p>Grade level: 10 – 12 Credit(s): 0.5 College Hour(s): NA <b>Tier I</b></p>



<b>DUAL CREDIT PSYCHOLOGY IT</b>	<b>8123 T</b>
<b>TCC Course: General Psychology (PSYC 2301)</b>	
<b>TWU Course: Introduction to Psychology (PSY 1301)</b>	
A survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.	03350100
<u>Instructional Material:</u> TCC Course: General Psychology (PSYC 2301)	Grade level: 11-12
<u>FWISD Prerequisites:</u>	Credit(s): 0.5
<u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading	College Hour(s): 3 hours
Early College High School Grade Placement 10-12	<b>Tier I</b>
<u>TWU Prerequisites:</u> Only offered at Dunbar	
Course taught by an approved adjunct instructor.	
<b>DUAL CREDIT AP PSYCHOLOGY IT</b>	<b>8126 T</b>
<b>TCC Course: General Psychology (PSYC 2301)</b>	
A survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.	03350100
<u>Instructional Material:</u> TCC Course: General Psychology (PSYC 2301)	Grade level: 11-12
<u>FWISD Prerequisites:</u>	Credit(s): 0.5
<u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading	College Hour(s): 3 hours
Early College High School Grade Placement 10-12	<b>Tier I</b>
Course taught by an approved adjunct instructor.	
<b>ADVANCED SOCIAL STUDIES RESEARCH METHODS IN PSYCHOLOGY T</b>	<b>8146 T</b>
An elective course designed for use in pairing with AP Psychology. Students learn collegiate level skills in research analysis and design. Each student will conduct in-depth research, prepare a product of professional quality, and make presentations to appropriate audiences. In collaboration with the teacher or a mentor, students independently investigate a problem, issue or concern.	033800##
<i>The course pairing 8146 and 8127 prepares students for the AP Psychology exam by teaching the curriculum over two semesters. When campuses pair 8146 and 8127, students must be enrolled in both courses.</i>	
<u>Instructional Material:</u> No state-adopted instructional material(s)/ Contact Social Studies Director.	Grade level: 10 - 12
<u>Prerequisites:</u> AP Psychology and student interest.	Credit(s): 0.5
<u>What's Next?</u> Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement.	College Hour(s): NA
033800##- 1st Time ##=03, 2nd Time ##=23, 3rd Time ##=33, 4th Time ##=43	<b>Tier I</b>
<i>This course may be used to meet only elective course requirements for state graduation.</i>	
<b>SOCIAL STUDIES ADVANCED STUDIES T</b>	<b>8138 T</b>
This is an elective course where students conduct in-depth research, prepare a product of professional quality, and make presentations to appropriate audiences. In collaboration with a mentor, or working independently, students investigate a problem, issue, or concern. Social Studies Advanced Studies may be repeated with different advanced content for up to four state elective credits.	033800##
<u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Social Studies	Grade level: 11 - 12
<u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History Studies; completion of (or taken concurrently) AP or Honors or Dual Credit US History; and student interest	Credit(s): 0.5
<u>What's Next?</u> Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement.	College Hour(s): NA
033800##- 1st Time ##=01, 2nd Time ##=21, 3rd Time ##=31, 4th Time ##=41	<b>Tier III</b>
<i>This course may be used to meet only elective course requirements for state graduation.</i>	
<b>HONORS SOCIAL STUDIES ADVANCED STUDIES TH</b>	<b>8142 T/H</b>
This is an elective course where students conduct in-depth research, prepare a product of professional quality, and make presentations to appropriate audiences. In collaboration with a mentor, or working independently, students investigate a problem, issue, or concern.	033800##
<u>Instructional Material:</u> No state-adopted instructional material(s)/Contact Social Studies	Grade level: 11 - 12
<u>Prerequisites:</u> District Recommendation: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; AP or Honors or Dual Credit World History Studies; completion of (or taken concurrently) AP or Honors or Dual Credit US History; and student interest	Credit(s): 0.5
<u>What's Next?</u> Any elective course that can be applied toward a humanities endorsement.	College Hour(s): NA
033800##- 1st Time ##=01, 2nd Time ##=21, 3rd Time ##=31, 4th Time ##=41	<b>Tier II</b>
<b>STUDENT LEADERSHIP AB</b>	<b>8141 AB</b>
Provides students the opportunity to study and develop individual leadership and organizational skills (e.g. decision making, problem solving, communications, human relations, and civic responsibility). Teachers are to use the course curriculum provided by the Texas Association of Secondary School Principals (TAASP). Training in the use of this curriculum is also required. State elective graduation credit. (Innovative Course).	N1290010
<u>Instructional Material:</u> Course curriculum provided by the Texas Association of Secondary School Principals (TAASP)/Contact Social Studies	Grade level: 9 - 12
	Credit(s): 1

<p><u>Prerequisites:</u> None</p> <p><u>What's Next?</u> Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement social studies elective.</p> <p><i>Course taught by TASSP curriculum trained teachers. This course is not eligible for application toward the social studies humanities endorsement. Contact Social Studies with questions.</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS STUDENT LEADERSHIP ABH</b></p> <p>Provides students the opportunity for advanced study and development of individual leadership and organizational skills (e.g. decision making, problem solving, communications, human relations, and civic responsibility). Teachers are to use the course curriculum provided by the Texas Association of Secondary School Principals (TAASP) and differentiate it to meet Honors-level expectations. Training in the use of this curriculum is also required. State elective graduation credit. (Innovative Course).</p>	<p><b>8140 ABH</b></p> <p>N1290010</p>
<p><u>Instructional Material:</u> <i>Course curriculum provided by the Texas Association of Secondary School Principals (TAASP)/Contact Social Studies</i></p> <p><u>Prerequisites:</u> District Recommendation: Successful completion and/or concurrent enrollment in Honors or AP or Dual Credit coursework.</p> <p><u>What's Next?</u> Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement social studies elective.</p> <p><i>Course taught by TASSP curriculum trained teachers. This course is not eligible for application toward the social studies humanities endorsement. Contact Social Studies with questions.</i></p>	<p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>SPECIAL TOPICS IN SOCIAL STUDIES: AMERICAN CULTURE STUDIES T</b></p> <p>Provides an opportunity for an in-depth examination of various cultural or ethnic groups in the United States. The course is designed to develop appreciation and respect for cultural diversity and the contributions made by various groups to the American landscape while incorporating the skills and content understanding needed by students to be successful on the United States History End-of-Course Exam.</p>	<p><b>8038 T</b></p> <p>033800##</p>
<p><u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Social Studies</i></p> <p><u>Prerequisites:</u> District Recommendation: World Geography Studies; World History Studies; completion of (or taken concurrently) US History; teacher, recommendation; parental approval.</p> <p><u>What's Next?</u> Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement social studies elective.</p> <p><i>033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42 Special Topics may be repeated with different topics for up to two state credits.</i></p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: PHILOSOPHY T</b></p> <p><b>TCC Course: Introduction to Philosophy (PHIL 1301)</b></p> <p><b>TWU Course: Intro to Ethics (REL 1313)</b></p> <p>A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.</p>	<p><b>8039 T</b></p> <p>033800##</p>
<p><u>Instructional Material:</u> <i>TCC Course: Introduction to Philosophy (PHIL 1301)</i></p> <p><u>FWISD Prerequisites:</u> None</p> <p><u>TCC Prerequisites:</u> ENGL-1301 with a grade of C or TSI compliant in reading</p> <p>Early College High School Grade Placement 10-12</p> <p><u>TWU Prerequisites:</u> Only offered at Dunbar</p> <p>Course taught by an approved adjunct instructor. <i>Special Topics may be repeated with different topics for up to two state credits. 033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42</i></p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 3 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: GEOGRAPHY THEMES AND PERSPECTIVES A</b></p> <p><b>TCC Course: Introduction to World Religions (PHIL 1304)</b></p> <p>This course engages students in a comparative study of world religions including, but not limited to Hinduism, Buddhism, Judaism, Christianity and Islam. In addition to understanding their historical development, cultural expressions and spatial distribution students will consider what it means to live in a world where people have diverse religious beliefs.</p>	<p><b>8004 A</b></p> <p>033800##</p>
<p><u>Instructional Material:</u> <i>TCC Course: Introduction to World Religions (PHIL 1304)</i></p> <p><u>FWISD Prerequisites:</u> None</p> <p><u>TCC Prerequisites:</u> None</p> <p>Course taught by an approved adjunct instructor. <i>Special Topics may be repeated with different topics for up to two state credits. 033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42</i></p>	<p>Grade level: 9 - 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 3 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: GEOGRAPHY THEMES AND PERSPECTIVES B</b></p> <p><b>TCC Course: Social Problems (SOC1 1306)</b></p> <p>In this course, students will apply social science principles and perspectives to explore major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance, or family problems. Included in the study is a building an understanding of the linkage between social problems and the global, political, economic, and cultural dimensions.</p>	<p><b>8004 B</b></p> <p>033800##</p>
<p><u>Instructional Material:</u> <i>TCC Course: Social Problems (SOC1 1306)</i></p> <p><u>FWISD Prerequisites:</u> None</p> <p><u>TCC Prerequisites:</u> None</p> <p>Course taught by an approved adjunct instructor. <i>Special Topics may be repeated with different topics for up to two state credits. 033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42</i></p>	<p>Grade level: 10 - 12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 3 hours</p> <p><b>Tier I</b></p>

state credits. 033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42

**SPECIAL TOPICS IN SOCIAL STUDIES: LATINO/A STUDIES T**

**8041 T/H**

Students explore LatinX and Chicano/Chicana experiences from the pre-Columbian era to the present day. Topics of study include an examination of the historical, economic, social, and cultural contributions of people and descendants of Mexico, Central and South America, and the Caribbean. Through their exploration of these topics, students will investigate the diversity of Latino(a)/Chicano(a) culture, ponder the various factors that have come to form their identities, and analyze how their experiences have shaped American society today. This course provides authentic academic experiences and is designed to prepare students for success in college and in their chosen careers. Students are expected to conduct in-depth research, prepare a product of professional quality, and make presentations to appropriate audiences as part of this course.

033800##

Instructional Material: No state-adopted instructional material(s)/Contact Social Studies

Prerequisites: World Geography Studies if taken for core social studies graduation credit. \* Enrolled concurrently in United States History Studies, Government, or Economics if taken as an elective; student interest

Grade level: 10 – 12

Credit(s): 0.5

What's Next? Students planning to take ethnic studies as a graduation eligible credit should take 8045 T in the Spring semester. Students taking the course as an elective may take a Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement.

College Hour(s): NA

**Tier II**

\*When paired with 8045T this Ethnic Studies course may be used in place of World History Studies to satisfy core social studies graduation credit.

033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42

Special Topics may be repeated with different topics for up to two state credits.

**DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: LATINO/A STUDIES T**

**8043 T**

**UTA Course: Introduction to Mexican-American Studies (MAS 2300)**

This online course is an introduction to the multi-disciplinary field of Mexican-American Studies. By the end of the course, students will gain an understanding of important moments in Mexican-American history, key cultural concepts in Mexican American cultural studies, and the issues confronting Latinos/as today.

033800##

Instructional Material: UTA Course: Intro. to Mexican-American Studies (MAS 2300)

FWISD Prerequisites: World Geography Studies; World History Studies; completion of US History or taken concurrently; student interest

Grade level: 11-12

Credit(s): 0.5

UTA Prerequisites: Admission into UTA's Honors Academy Dual Credit Program

College Hour(s): 3 hours

033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42

**Tier I**

Special Topics may be repeated with different topics for up to two state credits.

**DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: LATINO/A STUDIES T**

**8043 T**

**TCC Course: Mexican-American History I to 1876 (HIST 2327)**

Historical, economic, social, and cultural development of Mexican-Americans/Chicanos/Chicanas. (May be applied to US History requirement.)

033800##

Instructional Material: TCC Course: Mexican-American History I to 1876 (HIST 2327)

FWISD Prerequisites: World Geography and World History

Grade level: 11-12

TCC Prerequisites: ENGL-1301 with a grade of C or TSI compliant in reading

Credit(s): 0.5

Early College High School Grade Placement 10-12

College Hour(s): 3 hours

Course taught by an approved adjunct instructor.

**Tier I**

Special Topics may be repeated with different topics for up to two state credits.

033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42

**SPECIAL TOPICS IN SOCIAL STUDIES: A HISTORY OF HEALTH AND MEDICINE TH**

**8044 T/H**

Provides students enrolled at the Texas Academy of Biomedical Sciences an opportunity for an in-depth examination of health and medical topics related to the school's mission; including historical influences on public health, the evolution of scientific and medical advances on health throughout history, as well as changing perceptions and approaches to professional practice in the biomedical fields. The course is designed in a seminar format and will provide opportunities to develop college and career readiness skills through the robust class discussions as well as conducting research for and the writing of a historical paper.

033800##

Instructional Material: No state-adopted instructional material(s)/Contact Social Studies

Grade level: 12

Prerequisites: World Geography Studies; World History Studies; US History; student interest

Credit(s): 0.5

What's Next? N/A

College Hour(s): NA

033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42

**Tier II**

Special Topics may be repeated with different topics for up to two state credits.

Offered only at: TABS

**ETHNIC STUDIES: AFRICAN AMERICAN STUDIES T**

**8045 T/H**

Students explore African and African-American history from ancient times to the present. During this study, students develop a rich understanding of the causes, character, and consequences of the African American experience as well as the way individual contributions shape the political, economic, and cultural landscape in the local community, the United States, and the World. Students are expected to conduct in-depth research, prepare a product of professional quality, and make presentations to appropriate audiences as part of this course.

03380085

Instructional Material: No state-adopted instructional material(s)/Contact Social Studies/Locally adopted text is

*Freedom on My Mind (2<sup>nd</sup> Edition) from Bedford Freeman & Worth*

Grade level: 10 – 12

Credit(s): 0.5

Prerequisites: World Geography Studies if taken for core social studies graduation credit. \* Enrolled concurrently in United States History Studies, Government, or Economics if taken as an elective; student interest

College Hour(s): NA

**Tier II**

What's Next? Students planning to take ethnic studies as a graduation eligible credit should take 8041 T in the Fall. Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement.

*\*When paired with 8041T this Ethnic Studies course may be used in place of World History Studies to satisfy core social studies graduation credit.*

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**DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: TEXAS GOVERNMENT T****8073 T****TCC Course: Texas Government (GOVT 2306)**

Origin and development of the Texas Constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

033800##

Instructional Material: TCC Course: Texas Government (GOVT 2306)

FWISD Prerequisites: None

TCC Prerequisites: ENGL-1301 with a grade of C or TSI compliant in reading

What's Next? N/A

Early College High School Grade Placement 10-12

Course taught by an approved adjunct instructor.

Grade level: N/A

Credit(s): 0.5

College Hour(s): 3 hours

**Tier I**

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**DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: PRINCIPLES OF MICROECONOMICS T****8095 T****TCC Course: Principles of Microeconomics (ECON 2302)**

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

033800##

Instructional Material: TCC Course: Principles of Microeconomics (ECON 2302)

FWISD Prerequisites: United States History I

What's Next? N/A

Course taught by an approved adjunct instructor. *Special Topics may be repeated with different topics for up to two state credits. 033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42*

Grade level: 11 - 12

Credit(s): 0.5

College Hour(s): 3 hours

ECHS Grade: 10-12

**Tier I**

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**PERSONAL FINANCIAL LITERACY T****8145 T**

Personal financial literacy is designed to be an interactive research-based course where students learn to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and post-secondary education and training.

03380082

Instructional Material: No state-adopted instructional material(s)/Contact Social Studies

Prerequisites: District Recommendations: AP Human Geography AB or Honors World Geography Studies or World Geography Studies; and student interest.

What's Next? Core course per recommended sequence for graduation and/or any elective social studies course that can be applied toward a humanities endorsement.

Grade level: 10-12

Credit(s): 0.5

College Hour(s): NA

**Tier III**

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**DUAL CREDIT PERSONAL FINANCIAL LITERACY T****8147 T****TWU Course: Personal Finance (FIN 1325)**

This course offers an introduction to the planning and management of the financial status of an individual. Topics will include personal budgeting, car and home loan financial analysis, a survey of investment opportunities and retirement planning.

03380082

Instructional Material: TWU Personal Finance (FIN 1325)

FWISD Prerequisites: None

TWU Prerequisites: None

This course is offered as part of the Early College High School program at Dunbar High School. Course must be taught by an approved adjunct instructor

Grade level: 9 - 12

Credit(s): 0.5

College Hour(s): 3 hours

**Tier I**

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**SPECIAL TOPICS IN SOCIAL STUDIES: HONORS UNITED STATES MILITARY HISTORY ABH****5975 ABH****5976 ABH****5978 ABH**

This course presents a comprehensive U. S. Military History review, providing students an awareness of responsible leadership roles of men and women in past and present history. Students will gain an understanding of U.S. military history and strategy from an intellectual, social, economic and political perspective. Students will apply critical-thinking skills to understand the impact of geographic factors, current world events and the role of diplomacy from the perspective of both scholars and from the perspective of those who have fought our wars. Cadet leaders are provided the opportunity to participate in world affairs discussions and seminars, staff rides to military installations, museums, historic battlefields and monuments, panel discussions, community service projects, leadership labs, leadership camps, as well as participation in classroom discussion, and debate projects on local and world events. Students will gain a world-view perspective and a greater appreciation and understanding of culture, history and government.

033800##

Grade level: 10 - 12

HS Credit(s): 1

College Hour(s): N/A

**Tier II**

Instructional Materials: Provided by ROTC Department/Locally adopted textbook - Lookingbill's *The American Military: A Narrative History*, John Wiley Press, 2014, ISBN: 9781444337365

Prerequisites: Student must have completed JROTC I or seeking Humanities Endorsement.

*033800## - 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42*

<p><b>SPECIAL TOPICS IN SOCIAL STUDIES: ADVANCED WORLD HISTORY CA. 1500 AB</b></p> <p>This course introduces students to the philosophy, themes, and perspectives that define the discipline of history as well as cultivating the habits of mind and skills historians use to practice their art through a study of primary and secondary texts that illuminate the history of world civilizations from prehistory to CA 1500. Students will be guided through a sophisticated curriculum that will (1) enhance their understanding of the patterns of human action that constitute civilization and culture building throughout time and (2) prepare them to consider the more contemporary world with an understanding of the history epochs that have preceded them.</p>	<p><b>8053 AB</b></p> <p>Part A PEIMS: 03380002 Part B PEIMS: 03380022</p>
<p><u>Instructional Material(s)</u>: No State Adopted Instructional Materials/<i>World History and Geography</i> from McGraw-Hill/Materials integrated into the course curriculum/Contact the Social Studies Director</p> <p><u>Prerequisites</u>: Concurrent enrollment in Honors English 1AB (VPA3090AB) or Honors English 2AB (VPA3092AB)</p> <p><u>What's Next?</u> Honors World History 1AB (VPA8035AB)</p> <p>Offered ONLY at: IM Terrell VPA/STEM</p> <p><i>Core course as part of the Humanities Academy at IM Terrell sequence for graduation. Taken in place of World Geography Studies, successful completion of this course satisfies 1 of the 4 social studies credits the district requires for graduation. Students earning credit for this course must take World History Studies, United States History Studies, Government and Economics as the remaining 3 social studies credits to satisfy state graduation requirements.</i></p> <p>033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42</p> <p><i>Special Topics may be repeated with different topics for up to two state credits.</i></p>	<p>Grade level: 9 Credit(s): 1 College Hour(s): NA <b>Tier 1</b></p>
<p><b>DUAL CREDIT SPECIAL TOPICS IN SOCIAL STUDIES: GEOGRAPHY THEMES AND PERSPECTIVES A</b> <b>TWU Course: Social Justice (SSC 2360)</b></p>	<p><b>8002 A</b></p>
<p>This course is a General Education Course within the Social Sciences designed as a collaboration between different disciplines. The intention is to provide you with a more holistic view looking at the world and your place within that world.</p>	<p>033800##</p>
<p><u>Instructional Material</u>: TWU Personal Finance (FIN 1325)</p> <p><u>FWISD Prerequisites</u>: None</p> <p><u>TWU Prerequisites</u>: None</p> <p>This course is offered as part of the Early College High School program at Dunbar High School. Course must be taught by an approved adjunct instructor. <i>Special Topics may be repeated with different topics for up to two state credits.</i> 033800##- 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42.</p>	<p>Grade level: 9 - 12 Credit(s): 0.5 College Hour(s): 3 hours <b>Tier I</b></p>
<p><b>PEER ASSISTANCE &amp; LEADERSHIP (PAL®) I AB</b></p>	<p><b>0662 AB</b></p>
<p>PAL courses serve as a peer-mentoring program in which students are trained as peer facilitators on their campus and at feeder campuses. The courses provide field experience for students who are potentially interested in careers in education and related helping professions. Positive peer influence will be utilized as a central strategy for addressing such issues as at-risk youth, dropout prevention, substance abuse prevention, teen pregnancy, suicide, absenteeism, low achievement, behavior problems, students with special needs and other areas of concern.</p>	<p>N1290005</p>
<p><u>Instructional Material</u>: No state-adopted instructional material(s)/Contact Social Studies Director</p> <p><u>Prerequisites</u>: None</p> <p><u>What's Next?</u> PALS II</p> <p><i>Course taught by PAL® Curriculum trained teachers. State elective graduation credit (Innovative Course). This course is not eligible for application toward the social studies humanities endorsement. Contact Social Studies with questions.</i></p>	<p>Grade level: 10-12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>PEER ASSISTANCE &amp; LEADERSHIP (PAL®) II AB</b></p>	<p><b>0663 AB</b></p>
<p>PAL courses serve as a peer-mentoring program in which students are trained as peer facilitators on their campus and at feeder campuses. The course is an extension of PALS I where students will engage in service learning projects in addition to mentoring students. Leadership skills and tools are studied.</p>	<p>N1290006</p>
<p><u>Instructional Material</u>: No state-adopted instructional material(s)/Contact Social Studies Director</p> <p><u>Prerequisites</u>: None</p> <p><u>What's Next?</u> NA</p> <p><i>Course taught by PAL® Curriculum trained teachers. State elective graduation credit (Innovative Course). This course is not eligible for application toward the social studies humanities endorsement. Contact Social Studies with questions.</i></p>	<p>Grade level: 11-12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>

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# ***FINE ARTS – VISUAL & PERFORMING ARTS***

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**Fine Arts Course Sequence Chart.....Page 2**

## **Visual Arts**

**Art.....Page 3**

## **Performing Arts**

**Choral Music.....Page 19**

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# Fine / Visual & Performing Arts

## FINE/VISUAL & PERFORMING ARTS GRADUATION REQUIREMENTS

ALL STUDENTS ARE REQUIRED to take ONE Fine Arts credit

### FOUNDATION PLANS

#### All Foundation Plans (22 & 26 credits)

**Fine Arts (1 credit) may be selected from the following categories** (see chart on next page for all courses available within each category):

- Art Level I, II, III, IV
- Dance Level I, II, III, IV
- Music Level I, II, III, IV
- Music Studies
- Theatre Level I, II, III, IV
- Musical Theatre Level I, II, III, IV
- Technical Theatre Level I, II, III, IV
- Additional Courses

**Courses identified as local credit only or state elective credit will not qualify as meeting the fine arts requirement.**

*College Board Advanced Placement and International Baccalaureate courses may be substituted for requirements in appropriate areas.*

**Note:** In order to progress to a Level II studio art course, the student must successfully complete either Level I, 1010 Art I AB or 1051 Honors Art I ABH or Art and Media Communications I 1093 AB.

**A student must take both semesters of the same course to satisfy the one credit required for graduation.**

**Under the state Endorsement category for Arts and Humanities: A Fine Arts Endorsement may be completed by a coherent sequence of four credits by selecting courses from one or two categories or disciplines in Fine Arts. The course taken to complete the Fine Arts one credit requirement may also count as a course within an endorsement.**

Example of **Fine Arts Endorsement** with a coherent sequence from **one category**:

- Art Level I
- Art Level II
- Art Level III
- Art Level IV

Example of **Fine Arts Endorsement** with a coherent sequence from **two categories**:

- Music Level I
- Music Level II
- Art Level I
- Art Level II

## CLASSES THAT FULFILL THE ONE FINE ARTS CREDIT

A student must take both semesters of the same course to satisfy the one credit required for graduation. To receive an Arts & Humanities endorsement, a student must select a coherent sequence of four courses, subject to prerequisites, from one or two of the categories listed below:

	<b>Level I</b>	<b>Level II</b>	<b>Level III</b>	<b>Level IV</b>
<b>Art</b>	<ul style="list-style-type: none"> <li>• Art I</li> <li>• Art Appreciation</li> </ul>	<ul style="list-style-type: none"> <li>• Art II</li> <li>• Drawing I</li> <li>• Painting I</li> <li>• Ceramics I</li> <li>• Sculpture I</li> <li>• Jewelry I</li> <li>• Photography I</li> </ul>	<ul style="list-style-type: none"> <li>• Art III</li> <li>• Drawing II</li> <li>• Painting II</li> <li>• Ceramics II</li> <li>• Sculpture II</li> <li>• Jewelry II</li> <li>• Photography II</li> <li>• AP Studio Art: Drawing Portfolio</li> <li>• AP Studio Art: Two-Dimensional Design Portfolio</li> <li>• AP Studio Art: Three-Dimensional Design Portfolio</li> <li>• AP Art History</li> </ul>	<ul style="list-style-type: none"> <li>• Art IV</li> <li>• Drawing III</li> <li>• Painting III</li> <li>• Ceramics III</li> <li>• Sculpture III</li> <li>• Jewelry III</li> <li>• Photography III</li> <li>• AP Studio Art: Drawing Portfolio</li> <li>• AP Studio Art: Two-Dimensional Design Portfolio</li> <li>• AP Studio Art: Three-Dimensional Design Portfolio</li> <li>• AP Art History</li> <li>• OnRamps Arts and Entertainment Technologies</li> <li>• VPA Capstone</li> </ul>
<b>Dance</b>	<ul style="list-style-type: none"> <li>• Principles of Dance I</li> <li>• Dance and Media Communications I</li> <li>• Jazz I</li> <li>• Modern/Contemporary I</li> <li>• Tap I</li> <li>• Ballet I</li> <li>• World Dance Forms I</li> <li>• Dance Composition &amp; Improvisation I</li> <li>• Dance Wellness I</li> <li>• Dance Production I</li> <li>• Dance History I</li> </ul>	<ul style="list-style-type: none"> <li>• Principles of Dance II</li> <li>• Dance and Media Communications II</li> <li>• Jazz II</li> <li>• Modern/Contemporary II</li> <li>• Tap II</li> <li>• Ballet II</li> <li>• World Dance Forms II</li> <li>• Dance Performance &amp; Ensemble II</li> <li>• Dance Wellness II</li> <li>• Dance Production II</li> <li>• Dance History II</li> </ul>	<ul style="list-style-type: none"> <li>• Principles of Dance III</li> <li>• Jazz III</li> <li>• Modern/Contemporary III</li> <li>• Tap III</li> <li>• Ballet III</li> <li>• World Dance Forms III</li> <li>• Dance Performance &amp; Ensemble III</li> <li>• Dance Wellness III</li> <li>• Dance Production III</li> </ul>	<ul style="list-style-type: none"> <li>• Principles of Dance IV</li> <li>• Jazz IV</li> <li>• Modern/Contemporary IV</li> <li>• Tap IV</li> <li>• Ballet IV</li> <li>• World Dance Forms IV</li> <li>• Dance Performance &amp; Ensemble IV</li> <li>• Dance Wellness IV</li> <li>• Dance Production IV</li> <li>• VPA Capstone</li> </ul>
<b>Music</b>	<ul style="list-style-type: none"> <li>• Band I</li> <li>• Choir I</li> <li>• Orchestra I</li> <li>• Jazz Ensemble I</li> <li>• Instrumental Ensemble I</li> <li>• Vocal Ensemble I</li> <li>• Mariachi I</li> <li>• Piano I</li> <li>• Guitar I</li> <li>• Jazz Improvisation I</li> <li>• World Music Ensemble I</li> </ul>	<ul style="list-style-type: none"> <li>• Band II</li> <li>• Choir II</li> <li>• Orchestra II</li> <li>• Jazz Ensemble II</li> <li>• Instrumental Ensemble II</li> <li>• Vocal Ensemble II</li> <li>• Mariachi II</li> <li>• Piano II</li> <li>• Guitar II</li> <li>• Jazz Improvisation II</li> <li>• World Music Ensemble II</li> </ul>	<ul style="list-style-type: none"> <li>• Band III</li> <li>• Choir III</li> <li>• Orchestra III</li> <li>• Jazz Ensemble III</li> <li>• Instrumental Ensemble III</li> <li>• Vocal Ensemble III</li> <li>• Mariachi III</li> <li>• Piano III</li> <li>• Guitar III</li> <li>• Jazz Improvisation III</li> <li>• World Music Ensemble III</li> </ul>	<ul style="list-style-type: none"> <li>• Band IV</li> <li>• Choir IV</li> <li>• Orchestra IV</li> <li>• Jazz Ensemble IV</li> <li>• Instrumental Ensemble IV</li> <li>• Vocal Ensemble IV</li> <li>• Mariachi IV</li> <li>• Piano IV</li> <li>• Guitar IV</li> <li>• Jazz Improvisation IV</li> <li>• World Music Ensemble IV</li> <li>• VPA Capstone</li> </ul>
<b>Music Studies</b>	<ul style="list-style-type: none"> <li>• Music Theory I</li> <li>• Music Production I</li> <li>• Music &amp; Media Communications I</li> <li>• AP Music Theory</li> </ul>	<ul style="list-style-type: none"> <li>• Music Theory II</li> <li>• Music Production II</li> <li>• Music &amp; Media Communications II</li> </ul>	<ul style="list-style-type: none"> <li>• Ethnomusicology</li> <li>• Music &amp; Movement</li> </ul>	<ul style="list-style-type: none"> <li>• Ethnomusicology</li> </ul>
<b>Theatre</b>	<ul style="list-style-type: none"> <li>• Theatre Arts I</li> <li>• Theatre and Media Communications I</li> <li>• Theatre Production I</li> </ul>	<ul style="list-style-type: none"> <li>• Theatre Arts II</li> <li>• Theatre and Media Communications II</li> <li>• Theatre Production II</li> </ul>	<ul style="list-style-type: none"> <li>• Theatre III</li> <li>• Theatre Production III</li> </ul>	<ul style="list-style-type: none"> <li>• Theater Arts IV</li> <li>• Theatre Production IV</li> <li>• VPA Capstone</li> </ul>



	Level I	Level II	Level III	Level IV
<b>Musical Theatre</b>	<ul style="list-style-type: none"> <li>Musical Theatre I</li> </ul>	<ul style="list-style-type: none"> <li>Musical Theatre II</li> </ul>	<ul style="list-style-type: none"> <li>Musical Theatre III</li> </ul>	<ul style="list-style-type: none"> <li>Musical Theatre IV</li> <li>VPA Capstone</li> </ul>
<b>Technical Theatre</b>	<ul style="list-style-type: none"> <li>Technical Theatre I</li> </ul>	<ul style="list-style-type: none"> <li>Technical Theatre II</li> </ul>	<ul style="list-style-type: none"> <li>Technical Theatre III</li> </ul>	<ul style="list-style-type: none"> <li>Technical Theater IV</li> <li>VPA Capstone</li> </ul>
<b>Additional Courses</b>	<ul style="list-style-type: none"> <li>Principles and Elements of Floral Design</li> <li>Digital Art and Animation</li> <li>3-D Modeling and Animation</li> </ul>			

## Fine Arts

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**ALL fine arts courses must be taken for the full year.**

### VISUAL ARTS

Level I - IV		Level II- IV		Level III & IV	
General Art Courses		Specialized Art Courses		Advanced Placement	
<b>Art I-IV</b>	1010*, 1023, 1033, 1042	<b>Ceramics</b>	1022, 1024, 1026	<b>AP Studio Art: Drawing Portfolio</b>	1041
<b>Art Appreciation</b>	1008*	<b>Drawing</b>	1012, 1037, 1076	<b>AP Studio Art: Two-Dimensional Design Portfolio</b>	1043
<b>Honors Art I</b>	1051	<b>Jewelry</b>	1032, 1034, 1036	<b>AP Studio Art: Three-Dimensional Design Portfolio</b>	1020
<p><i>Note: Some students will have completed their Art, Level I requirement in 8th grade.</i></p> <p>* Art I or Honors Art I must be taken prior to enrolling in a more specialized Art II studio course.</p> <ul style="list-style-type: none"> <li>Honors course enrollment is based on portfolio review and successful completion of foundational skills assessment</li> </ul>		<b>Painting</b>	1016, 1029, 1080	<b>AP Art History</b>	1048
		<b>Photography</b>	1018, 1030, 1084	<p><i>AP Art Courses may be taken as Art Level III and/or Art Level IV, and/or Portfolio review and Art Teacher recommendation.</i></p>	
		<b>Sculpture</b>	1028, 1092, 1099		
		<b>Honors Art II</b>	1025		

**Students must complete both A and B to receive state graduation credit for fine arts.**

**Honors Art courses are also available.**

<b>ART, LEVEL I, ART APPRECIATION AB</b>	<b>1008 AB</b>
<p>Art Appreciation introduces the visual arts to students with a focus on developing an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, design, and digital art and media. Students develop a portfolio of their artwork and acquire the skills to analyze the artworks of self and others. Art Appreciation is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03500110 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<u>Instructional Material:</u> NA	
<u>Prerequisites:</u> None	
<u>What's Next?</u> Any Art Level II specialized art courses	
<b>HONORS ART, LEVEL I, ART APPRECIATION ABH</b>	<b>1009 ABH</b>
<p>Honors Art Appreciation introduces the visual arts to students with a focus on developing an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, design, and digital art and media. Students develop a portfolio of their artwork and acquire the skills to analyze the artworks of self and others. Honors level students will expand their art appreciation ability and understanding to a higher degree with a final project related to the exploration of visual art forms and their relationship to culture, history, media, and society. Honors Art Appreciation is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03500110  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<u>Instructional Material:</u> NA	
<u>Prerequisites:</u> Student interest	
<u>What's Next?</u> Any Art Level II specialized art courses <i>Course taught by a locally certified gifted teacher.</i>	
<b>DUAL CREDIT ART, LEVEL I, ART APPRECIATION AB</b>	<b>1108 AB</b>
<b>TCC COURSE: Art Appreciation (ARTS 1301)</b>	03500110
<b>TWU COURSE: Basic Art (FAR 1311)</b>	
<p>Dual Credit Art Appreciation introduces the visual arts to students with a focus on developing an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, design, and digital art and media. Students develop a portfolio of their artwork and acquire the skills to analyze the artworks of self and others. Honors level students will expand their art appreciation ability and understanding to a higher degree with a final project related to the exploration of visual art forms and their relationship to culture, history, media, and society. Dual Credit Art Appreciation is a one-semester course.</p>	<p>ECHS Grade level: 9-12 Grade level: NA Credit(s): 1 College Hour(s): 3 <b>Tier I</b></p>
<u>Instructional Material:</u> NA	
<u>FWISD &amp; TCC Prerequisites:</u> None	
<u>TWU Prerequisites:</u> Only offered at Dunbar	
<u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	
<b>ART, LEVEL I, ART I AB</b>	<b>1010 AB</b>
<p>Art I develops and expands visual literacy skills in students using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, design, and digital art and media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Art I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03500100  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<u>Instructional Material:</u> eBook: <i>The Visual Experience, Davis Publications; ISBN: 978-1-61528-328-6</i>	
<u>Prerequisites:</u> None	
<u>What's Next?</u> Any Art Level II specialized Art courses	
<b>HONORS ART, LEVEL I, ART I ABH</b>	<b>1051 ABH</b>
<p>Honors Art I develops and expands visual literacy skills in students using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, design, and digital art and media. Students create a portfolio with rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors level students will expand their art ability and understanding to a higher degree with a final project related to the exploration of visual arts. Honors Art I is a two-semester sequence course with the first semester a prerequisite to the second semester.</p>	<p>03500100  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>

Instructional Material: eBook: *The Visual Experience*, Davis Publications; ISBN: 978-1-61528-328-6

Prerequisites: Evaluation of student portfolio/teacher recommendation

What's Next? Any Art Level II specialized Art course

*Course taught by a locally certified gifted or AP trained teacher. This course serves as an Honors course.*

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**DUAL CREDIT ART, LEVEL I, ART I AB**

**1011 AB**

**TCC Course: Design I (2-Dimensional) (ARTS 1311)**

Dual Credit Art I develops and expands visual literacy skills in students using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, photography, design, and digital art and media. Students create a portfolio with rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Art I is a one-semester course.

03500100

ECHS Grade level: 9-12  
Grade level: NA  
Credit(s): 1  
College Hour(s): 3  
**Tier I**

Instructional Material: NA

FWISD & TCC Prerequisites: None

What's Next? Design II

*Course taught by an approved District or adjunct instructor.*

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**ART, LEVEL II, ART II AB**

**1023 AB**

Art II develops and expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, jewelry, mixed media, photography, and digital art and media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Art II is a two-semester sequence course with the first semester being a prerequisite to the second semester.

03500200

Grade level: 9 – 12

Instructional Material: eBook: *The Visual Experience*, Davis Publications; ISBN: 978-1-61528-328-6

Prerequisites: Art I

What's Next? Art III or any specialized Level II Art course

Credit(s): 1

College Hour(s): NA

**Tier III**

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**HONORS ART, LEVEL II, ART II ABH**

**1025 ABH**

Honors Art II develops and expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, jewelry, mixed media, photography, and digital art and media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Art II provides advanced art instruction to understand sustained investigation, selected works, and written evidence. Art II is a two-semester sequence course with the first semester being a prerequisite to the second semester.

03500200

Instructional Material: eBook: *The Visual Experience*, Davis Publications; ISBN: 978-1-61528-328-6 Textbook: 1201 - *The Visual Experience*, Davis Publications; ISBN: 978-0-87192-627-2

Prerequisites: Honors Art Level I, Art Portfolio and teacher recommendation

What's Next? Honors Art Level III, Advanced Placement Art, or any specialized Level II Art course

*Course taught by a locally certified gifted or AP trained teacher. This course serves as an Honors course.*

Grade level: 10 – 12

Credit(s): 1

College Hour(s): NA

**Tier II**

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**DUAL CREDIT ART, LEVEL II, ART II AB**

**1147 AB**

**TCC Course: Design II (3-Dimensional) (ARTS 1312)**

Dual Credit Art II develops and expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork using art media and tools in sculpture, ceramics, fiber art, jewelry, mixed media, while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Art II is a one-semester course.

03501210

ECHS Grade level: 9-12  
Grade level: NA  
Credit(s): 1  
College Hour(s): 3  
**Tier I**

Instructional Material: NA

FWISD & TCC Prerequisites: ARTS 1311

What's Next? NA

*Course taught by an approved District or adjunct instructor.*

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**ART, LEVEL III, ART III AB**

**1033 AB**

Art III expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers an advanced level opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork. It emphasizes the processes and techniques in using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, jewelry, mixed media, photography, and digital art and media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing

03500300

Grade level: 10 – 12

<p>artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Art III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>The Visual Experience</i>, Davis Publications; ISBN: 978-1-61528-328-6</p> <p><u>Prerequisites:</u> Art Level II</p> <p><u>What's Next?</u> Art level IV, Advanced Placement Art or any specialized Level II Art course</p>	<p>Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS ART, LEVEL III, ART III ABH</b></p> <p>Honors Art III expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers an advanced level opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork. It emphasizes the processes and techniques in using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, jewelry, mixed media, photography, and digital art and media. Students create a portfolio with rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Art III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>The Visual Experience</i>, Davis Publications; ISBN: 978-1-61528-328-6</p> <p><u>Prerequisites:</u> Art Level II</p> <p><u>What's Next?</u> Art level IV, Advanced Placement Art or any specialized Level II Art course</p> <p><i>Course taught by a locally certified gifted teacher.</i></p>	<p><b>1035 AB/H</b> 03500300 Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>ART, LEVEL IV, ART IV AB</b></p> <p>Art IV further expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers an advanced level opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork. It emphasizes the advanced processes and techniques in using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, jewelry, mixed media, photography, and digital art and media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Art IV is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>The Visual Experience</i>, Davis Publications; ISBN: 978-1-61528-328-6</p> <p><u>Prerequisites:</u> Art Level III</p> <p><u>What's Next?</u> Advanced Placement Art or any Level III specialized Art course</p>	<p><b>1042 AB</b> 03500400 Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS ART, LEVEL IV, ART IV ABH</b></p> <p>Honors Art IV further expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers an advanced level opportunity to communicate thoughts, feelings, ideas, or impressions through original artwork. It emphasizes the advanced processes and techniques in using art media and tools in drawing, painting, printmaking, sculpture, ceramics, fiber art, jewelry, mixed media, photography, and digital art and media. Students create a portfolio with rigorous assignments and demonstrate growth in skill level. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Art IV is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>The Visual Experience</i>, Davis Publications; ISBN: 978-1-61528-328-6</p> <p><u>Prerequisites:</u> Art Level III</p> <p><u>What's Next?</u> Advanced Placement Art or any Level III specialized Art course</p> <p><i>Course taught by a locally certified gifted teacher.</i></p>	<p><b>1045 ABH</b> 03500400 Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>OnRAMPS ART IV, ARTS AND ENTERTAINMENT TECHNOLOGIES AB OR</b></p> <p>This course presents a broad overview of digital media technologies, software, and applications along with the fundamental concepts of digital representations of images and signals. Students study an assortment of entertainment concepts and experiences, discover the underlying technology involved, and learn how this technology is delivered to the participant. Students also consider the cultural, philosophical, ethical, and practical aspects of entertainment technology. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and a high school credit from their local teacher.</p> <p><u>Instructional Material:</u> Selected and provided by the University of Texas at Austin</p> <p><u>Prerequisites:</u> Art 1 (1010AB); or Art &amp; Media Communications (1093AB/1095ABH); and basic computer literacy</p> <p><u>What's Next?</u> Any Level IV specialized course or Advanced Placement Art course</p> <p>*Only offered at I.M Terrell VPA</p>	<p><b>1073 AB</b> 03503220 Grade level: 11-12 Credit(s): 1 College Hour(s): 3 <b>Tier I</b></p>
<p><b>ART, LEVEL II, CERAMICS I AB</b></p> <p>Ceramics I is an in-depth exploration of clay construction to produce functional and sculptural artwork. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes while developing a digital portfolio of their artwork.</p>	<p><b>1022 AB</b> 03500900 Grade level: 9 – 12 Credit(s): 1</p>

<p>Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Ceramics I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>Experience Clay</i>, Davis Publications; ISBN: 978-1-61528-326-2</p> <p><u>Prerequisites:</u> Art I</p> <p><u>What's Next?</u> Ceramics II; AP Three-Dimensional Design Art Portfolio, any specialized Level II art course</p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS ART, LEVEL II, CERAMICS I ABH</b></p> <p>Honors Ceramics I is an in-depth exploration of clay construction to produce functional and sculptural artwork. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Students create a digital portfolio with rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Ceramics I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>Experience Clay</i>, Davis Publications; ISBN: 978-1-61528-326-2 Textbook: 1204 – <i>Experience Clay</i>, Davis Publications; ISBN: 978-1-61528-030-8</p> <p><u>Prerequisites:</u> Art I</p> <p><u>What's Next?</u> Ceramics II; AP Three-Dimensional Design Art Portfolio, any specialized Level II art course</p> <p><i>Course taught by a locally certified gifted teacher.</i></p>	<p><b>1081 ABH</b></p> <p>03500900</p>
<p><b>DUAL CREDIT ART, LEVEL II, CERAMICS I AB</b></p> <p><b>TCC Course: Ceramics I (ARTS 2346)</b></p> <p>Dual Credit Ceramics I is an in-depth exploration of clay construction to produce functional and sculptural artwork. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Students create a digital portfolio with rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Ceramics I is a one-semester sequence course.</p> <p><u>Instructional Material:</u> NA</p> <p><u>FWISD Prerequisites:</u> Art I</p> <p><u>TCC Prerequisites:</u> None</p> <p><u>What's Next?</u> NA</p> <p><i>Course taught by an approved District or adjunct instructor.</i></p>	<p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p> <p><b>1122 AB</b></p> <p>03500900</p>
<p><b>ART, LEVEL III, CERAMICS II AB</b></p> <p>Ceramics II is an in-depth exploration of clay construction to produce functional and sculptural artwork. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Student explore specialized glazing techniques and glass applications all while developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Ceramics II is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>Experience Clay</i>, Davis Publications; ISBN: 978-1-61528-326-2</p> <p><u>Prerequisites:</u> Ceramics I</p> <p><u>What's Next?</u> Ceramics III, AP Three-Dimensional Design Art Portfolio, any specialized Level II Art course</p>	<p>Grade level: 9 – 12</p> <p>ECHS Grade level: 9-12</p> <p>Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p> <p><b>1024 AB</b></p> <p>03501800</p>
<p><b>HONORS ART, LEVEL III, CERAMICS II ABH</b></p> <p>Honors Ceramics II is an in-depth exploration of clay construction to produce functional and sculptural artwork. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Student explore specialized glazing techniques and glass applications all while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Ceramics II is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> eBook: <i>Experience Clay</i>, Davis Publications; ISBN: 978-1-61528-326-2</p> <p><u>Prerequisites:</u> Ceramics I; Evaluation of student portfolio and teacher recommendation</p> <p><u>What's Next?</u> Ceramics III, AP Three-Dimensional Design Art Portfolio, any specialized Level II Art course</p> <p><i>Course taught by a locally certified gifted teacher.</i></p>	<p>Grade level: 10 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p> <p><b>1083 ABH</b></p> <p>03501800</p>

<b>DUAL CREDIT ART, LEVEL III, CERAMICS II AB</b> <b>TCC Course: Ceramics II (ARTS 2347)</b>	<b>1124 AB</b>
Dual Credit Ceramics II is an in-depth exploration of clay construction to produce functional and sculptural artwork. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Student explore specialized glazing techniques and glass applications all while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Ceramics II is a one-semester course that is a continuation of ARTS 2346.	03501800  ECHS Grade level: 10-12 Grade level: 10 – 12 Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Ceramics I <u>TCC Prerequisites:</u> None <u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	
<b>ART, LEVEL IV, CERAMICS III AB</b>	<b>1026 AB</b>
Ceramics III is an in-depth exploration of clay construction to produce functional and sculptural artwork which represent the personal style of the student. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Student explore specialized glazing techniques and glass applications all while developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Ceramics IV is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502700  Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> eBook: <i>Experience Clay, Davis Publications; ISBN: 978-1-61528-326-2</i> <u>Prerequisites:</u> Ceramics II; Evaluation of student portfolio/teacher recommendation <u>What's Next?</u> AP Three-Dimensional Design Art Portfolio or any specialized Level II Art course	
<b>HONORS ART, LEVEL IV, CERAMICS III ABH</b>	<b>1085 ABH</b>
Honors Ceramics III is an in-depth exploration of clay construction to produce functional and sculptural artwork which represent the personal style of the student. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original ceramic artwork in pinch, coil, and slab processes. Student explore specialized glazing techniques and glass applications all while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Ceramics IV is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502700 Grade level: 11 – 12
<u>Instructional Material:</u> eBook: <i>Experience Clay, Davis Publications; ISBN: 978-1-61528-326-2</i> <u>Prerequisites:</u> Ceramics II; Evaluation of student portfolio and teacher recommendation <u>What's Next?</u> AP Three-Dimensional Design Art Portfolio or any specialized Level II Art course <i>Course taught by a locally certified gifted teacher</i>	
<b>ART, LEVEL II, DRAWING I AB</b>	<b>1012 AB</b>
Drawing I is an in-depth exploration of the fundamentals of drawing. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Drawing I is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03500500  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I <u>What's Next?</u> Drawing II or any specialized Level II course	
<b>HONORS ART, LEVEL II, DRAWING I ABH</b>	<b>1053 ABH</b>
Honors Drawing I is an in-depth exploration of the fundamentals of drawing. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Drawing I is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03500500

<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I; Evaluation of student portfolio and teacher recommendation <u>What's Next?</u> Drawing II or any specialized Level II course <i>Course taught by a locally certified gifted teacher</i>	Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT ART, LEVEL II, DRAWING I AB</b> <b>TCC Course: Drawing I (ARTS 1316)</b>	<b>1112 AB</b>
Dual Credit Drawing I is an in-depth exploration of the fundamentals of drawing with emphasis on descriptive, expressive and conceptual approaches. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media and techniques while developing a portfolio of their artwork comprising of rigorous assignments Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Drawing I is a one-semester course.	03500500  ECHS Grade Level: 10-12 Grade level: NA Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Art I <u>TCC Prerequisites:</u> None <u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	
<b>ART, LEVEL III, DRAWING II AB</b>	<b>1037 AB</b>
Drawing II provides advanced training in the specialized area of drawing. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media including ink, pencil, conté, charcoal, colored pencils, and other media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Drawing II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03501300          Grade level: 10- 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I and Drawing II <u>What's Next?</u> Drawing III or any specialized Level II Art course, AP Drawing, or AP Design	<b>Tier III</b>
<b>HONORS ART, LEVEL III, DRAWING II ABH</b>	<b>1055 ABH</b>
Honors Drawing II provides advanced training in the specialized area of drawing. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media including ink, pencil, conté, charcoal, colored pencils, and other media while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Drawing II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03501300
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I, Drawing II; Evaluation of student portfolio/teacher recommendation <u>What's Next?</u> Drawing III or any specialized Level II Art course, AP Drawing, or AP Design <i>Course taught by a locally certified gifted teacher</i>	Grade level: 10 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT ART, LEVEL III, DRAWING II AB</b> <b>TCC Course: Drawing II (ARTS 1317)</b>	<b>1137 AB</b> 03501300
Dual Credit Drawing II provides advanced training in the specialized area of drawing emphasis on descriptive, expressive and conceptual approaches. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media including ink, pencil, conté, charcoal, colored pencils, and other media while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Drawing II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	ECHS Grade level: 10 – 12 Grade level: 10 – 12 Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Art I, Drawing II <u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	
<b>ART, LEVEL IV, DRAWING III AB</b>	<b>1076 AB</b>
Drawing III provides advanced training in the specialized area of drawing to introduce students to individual problems and styles in drawing. Students further expands their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts,	03502300

<p>feelings, ideas, or impressions through original drawn artwork in a variety of media including ink, pencil, conté, charcoal, colored pencils, and other media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Drawing III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art, Level III, Drawing II  <u>What's Next?</u> Any specialized Level II Art course, AP Drawing, or AP Design</p>	<p>Grade level: 11 – 12  Credit(s): 1  College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ART, LEVEL IV, DRAWING III ABH</b></p> <p>Honors Drawing III provides advanced training in the specialized area of drawing to introduce students to individual problems and styles in drawing. Students further expands their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original drawn artwork in a variety of media including ink, pencil, conté, charcoal, colored pencils, and other media while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Drawing III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art, Level II. Drawing II; evaluation of student portfolio/ teacher recommendation.  <u>What's Next?</u> Any specialized Level II Art course, AP Drawing, or AP Design  <i>Course taught by a locally certified gifted teacher</i></p>	<p><b>1078 ABH</b>  03502300</p> <p>Grade level: 11 - 12  Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>ART, LEVEL II, JEWELRY I AB</b></p> <p>Jewelry I affords students the opportunity to create three-dimensional pieces of jewelry using specific techniques presented in the course. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Jewelry I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art I  <u>What's Next?</u> Jewelry II or any specialized Level II Art course</p>	<p><b>1032 AB</b>  03501100</p> <p>Grade level: 9 – 12  Credit(s): 1  College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ART, LEVEL II, JEWELRY I ABH</b></p> <p>Honors Jewelry I affords students the opportunity to create three-dimensional pieces of jewelry using specific techniques presented in the course. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Jewelry I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art I; evaluation of student portfolio/ teacher recommendation.  <u>What's Next?</u> Jewelry II or any specialized Level II Art course  <i>Course taught by a locally certified gifted teacher</i></p>	<p><b>1087 ABH</b>  03501100</p> <p>Grade level: 9 - 12  Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>DUAL CREDIT ART, LEVEL II, JEWELRY I AB</b>  <b>TCC Course: Art Metals I (ARTS 2341)</b></p> <p>Dual Credit Jewelry I affords students the opportunity to create three-dimensional pieces of jewelry using metal construction. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Jewelry I is a one-semester sequence course.</p> <p><u>Instructional Material:</u> NA  <u>FWISD Prerequisites:</u> Art I  <u>TCC Recommended Prerequisites:</u> ARTS 1312  <u>What's Next?</u> NA  <i>Course taught by an approved District or adjunct instructor.</i></p>	<p><b>1132 AB</b>  03501100</p> <p>Grade level: NA  Credit(s): 1  ECHS Grade level: 10-12  College Hour(s): 3  <b>Tier I</b></p>



<b>ART, LEVEL III, JEWELRY II AB</b>	<b>1034 AB</b>
<p>Jewelry II includes casting, fabrication, finishing, stone setting, limited lapidary, or a combination of these to create jewelry. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Jewelry II is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03502000</p> <p>Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<u>Instructional Material:</u> NA	
<u>Prerequisites:</u> Jewelry I	
<u>What's Next?</u> Jewelry III or any specialized Level II Art course	
<b>HONORS ART, LEVEL III, JEWELRY II ABH</b>	<b>1089 ABH</b>
<p>Honors Jewelry II includes casting, fabrication, finishing, stone setting, limited lapidary, or a combination of these to create jewelry. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Jewelry II is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03502000</p> <p>Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<u>Instructional Material:</u> NA	
<u>Prerequisites:</u> Jewelry I; Evaluation of student portfolio/teacher recommendation	
<u>What's Next?</u> Jewelry III or any specialized Level II Art course	
<i>Course taught by a locally certified gifted teacher.</i>	
<b>ART, LEVEL IV, JEWELRY III AB</b>	<b>1036 AB</b>
<p>Jewelry III includes casting, fabrication, finishing, stone setting, limited lapidary, or a combination of these to create jewelry in the individual style of the students. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Jewelry III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03502900</p> <p>Grade level: 11 - 12</p>
<u>Instructional Material:</u> NA	
<u>Prerequisites:</u> Jewelry II	
<u>What's Next?</u> AP Three-Dimensional Design Art Portfolio or any specialized Level II Art course	
<b>HONORS ART, LEVEL IV, JEWELRY III ABH</b>	<b>1091 ABH</b>
<p>Honors Jewelry III includes casting, fabrication, finishing, stone setting, limited lapidary, or a combination of these to create jewelry in the individual style of the students. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original jewelry artwork developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Jewelry III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03502900</p> <p>Grade level: 11 - 12</p>
<u>Instructional Material:</u> NA	
<u>Prerequisites:</u> Jewelry II; Evaluation of student portfolio/teacher recommendation	
<u>What's Next?</u> AP Three-Dimensional Design Art Portfolio or any specialized Level II Art course	
<i>Course taught by a locally certified gifted teacher</i>	
<b>ART, LEVEL II, PAINTING I AB</b>	<b>1016 AB</b>
<p>Painting I is an in-depth exploration of the fundamentals of painting. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Painting I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	<p>03500600</p> <p>Grade level: 9 - 12</p>
<u>Instructional Material:</u> eBook Experience Painting, Davis Publications; ISBN: 978-1-61528-330-9	
<u>Prerequisites:</u> Art I	
<u>What's Next?</u> Painting II, Art II; any specialized Level II Art course, or AP Two-Dimensional Design Art Portfolio	
<b>Tier III</b>	

<b>HONORS ART, LEVEL II, PAINTING I ABH</b>	<b>1057 ABH</b>
<p>Honors Painting I is an in-depth exploration of the fundamentals of painting. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honor Painting I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	03500600
<u>Instructional Material:</u> eBook Experience Painting, Davis Publications; ISBN: 978-1-61528-330-9	Grade level: 9 - 12
<u>Prerequisites:</u> Art I; evaluation of student portfolio/ teacher recommendation.	Credit(s): 1
<u>What's Next?</u> Painting II, Art II; any specialized Level II Art course, or AP Two-Dimensional Design Art Portfolio <i>Course taught by a locally certified gifted teacher</i>	College Hour(s): NA
<b>DUAL CREDIT ART, LEVEL II, PAINTING I AB</b>	<b>1116 AB</b>
<b>TCC Course: Painting I (ARTS 2316)</b>	03500600
<p>Dual Credit Painting I is an in-depth exploration of the fundamentals of painting with an emphasis on color and composition. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Painting I is a one-semester sequence course.</p>	Grade level: NA
<u>Instructional Material:</u> NA	ECHS Grade level: 10-12
<u>FWISD Prerequisites:</u> Art I	Credit(s): 1
<u>TCC Recommended Prerequisites:</u> ARTS 1311 or ARTS 1316	College Hour(s): 3
<u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	<b>Tier I</b>
<b>ART, LEVEL III, PAINTING II AB</b>	<b>1029 AB</b>
<p>Painting II is an in-depth exploration of the fundamentals of painting. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media including, acrylic, ink, and watercolor while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Painting II is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	03501400
<u>Instructional Material:</u> eBook Experience Painting, Davis Publications; ISBN: 978-1-61528-330-9	Grade level: 10 – 12
<u>Prerequisites:</u> Art I and Painting I	Credit(s): 1
<u>What's Next?</u> Painting III, any specialized Level II Art course, AP Two-Dimensional Design Art Portfolio, or AP Studio Drawing Portfolio	College Hour(s): NA
<b>HONORS ART, LEVEL III, PAINTING II AB</b>	<b>1059 ABH</b>
<p>Honors Painting II is an in-depth exploration of the fundamentals of painting. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media including, acrylic, ink, and watercolor while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Painting II is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p>	03501400
<u>Instructional Material:</u> eBook Experience Painting, Davis Publications; ISBN: 978-1-61528-330-9	Grade level: 10 – 12
<u>Prerequisites:</u> Art I and Painting I, Evaluation of student portfolio/teacher recommendation	Credit(s): 1
<u>What's Next?</u> Painting III, any specialized Level II Art course, AP Two-Dimensional Design Art Portfolio, or AP Studio Drawing Portfolio <i>Course taught by a locally certified gifted teacher</i>	College Hour(s): NA
<b>DUAL CREDIT ART, LEVEL III, PAINTING II AB</b>	<b>1129 AB</b>
<b>TCC Course: Painting II (ARTS 2317)</b>	03501400
<p>Dual Credit Painting II is an in-depth exploration of the fundamentals of painting with an emphasis on individual expression. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media including, acrylic, ink, and watercolor while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Painting II is a one-semester course and a continuation of ARTS 2316.</p>	ECHS Grade level: 10-12

<u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Art II, Painting I, <u>TCC Recommended Prerequisites:</u> ARTS 2316 <u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	Grade level: 10 – 12 Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>ART, LEVEL IV, PAINTING III AB</b>	<b>1080 AB</b>
Painting III is an in-depth exploration of the fundamentals of painting focusing on individual problems and personal style. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media including, acrylic, ink, and watercolor while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Painting III is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502400  Grade level: 11 – 12
<u>Instructional Material:</u> <i>eBook Experience Painting, Davis Publications; ISBN: 978-1-61528-330-9</i> <u>Prerequisites:</u> Art III, Painting II, Evaluation of student's portfolio/teacher recommendation <u>What's Next?</u> Any specialized Level II Art course, AP Two-Dimensional Design Art Portfolio, or AP Studio Drawing Portfolio	Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<b>HONORS ART, LEVEL IV, PAINTING III ABH</b>	<b>1082 ABH</b>
Honors Painting III is an in-depth exploration of the fundamentals of painting focusing on individual problems and personal style. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original painted artwork in a variety of media including, acrylic, ink, and watercolor while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Painting III is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502400
<u>Instructional Material:</u> <i>eBook Experience Painting, Davis Publications; ISBN: 978-1-61528-330-9</i> <u>Prerequisites:</u> Art III, Painting II, Evaluation of student's portfolio/teacher recommendation <u>What's Next?</u> Any specialized Level II Art course, AP Two-Dimensional Design Art Portfolio, or AP Studio Drawing Portfolio <i>Course taught by a locally certified gifted teacher</i>	Grade level: 11 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>ART, LEVEL II, PHOTOGRAPHY I AB</b>	<b>1018 AB</b>
Photography I is an in-depth exploration of the fundamentals of photography. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of techniques while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Photography I is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03501200  Grade level: 9 - 12
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I <u>What's Next?</u> Photography II, any specialized Level II Art course, or any AP Art courses	Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<b>HONORS ART, LEVEL II, PHOTOGRAPHY I ABH</b>	<b>1061 ABH</b>
Honors Photography I is an in-depth exploration of the fundamentals of photography. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of techniques while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Honors Photography I is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03501200
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I <u>What's Next?</u> Photography II, any specialized Level II Art course, or any AP Art courses <i>Course taught by a locally certified gifted teacher</i>	Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>

<b>DUAL CREDIT ART, LEVEL II, PHOTOGRAPHY I AB</b> <b>TCC Course: Photography I (Fine Arts Emphasis) (ARTS 2356)</b>	<b>1118 AB</b>
Introduction to the basics of photography. Includes camera operation, techniques, knowledge of chemistry, and presentation skills. Emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics. Utilizes black and white film and traditional chemical darkrooms as well as digital photographic laboratories. Dual Credit Photography II is a one semester course sequence course.	03501200  ECHS Grade level: 10-12 Grade level: NA
<u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> None <u>What's Next?</u> Dual Credit Photography II (Fine Arts Emphasis) (ARTS 2357) <i>Course taught by an approved District or adjunct instructor.</i>	Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>ART, LEVEL III, PHOTOGRAPHY II AB</b>	<b>1030 AB</b>
Photography II is an in-depth exploration of the advanced photography and photography application. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of camera techniques, creative photography techniques, using both color and black and white, while developing a portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Photography II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502200
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I and Photography I <u>What's Next?</u> Photography III, any specialized Level II Art course, or AP Two-Dimensional Design Art Portfolio <i>Course taught by a locally certified gifted teacher</i>	Grade level: 10 - 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<b>HONORS ART, LEVEL III, PHOTOGRAPHY II ABH</b>	<b>1063 ABH</b>
Honors Photography II is an in-depth exploration of the advanced photography and photography application. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of camera techniques, creative photography techniques, using both color and black and white, while developing a portfolio of their artwork comprising of rigorous assignment. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Honors Photography II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502200
<u>Instructional Material:</u> NA <u>Prerequisites:</u> Art I and Photography I; Evaluation of student's portfolio/teacher's recommendation <u>What's Next?</u> Photography III, any specialized Level II Art course, or AP Two-Dimensional Design Art Portfolio <i>Course taught by a locally certified gifted teacher.</i>	Grade level: 10 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT ART, LEVEL III, PHOTOGRAPHY II AB</b> <b>TCC Course: Photography II (Fine Arts Emphasis) (ARTS 2357)</b>	<b>1130 AB</b> 03502200
Dual Credit Photography II is an in-depth exploration of the advanced photography and photography application. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of camera techniques, creative photography techniques, using both color and black and white, while developing a portfolio of their artwork comprising of rigorous assignment. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Dual Credit Photography II is a one-semester sequence course and a continuation of ARTS-2356.	ECHS Grade level: 10-12 Grade level: 10 – 12
<u>Instructional Material:</u> NA <u>FWISD Prerequisites:</u> Art I and Photography I <u>TCC Required Prerequisites:</u> ARTS 2356 <u>What's Next?</u> NA <i>Course taught by an approved District or adjunct instructor.</i>	Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>ART, LEVEL IV, PHOTOGRAPHY III AB</b>	<b>1084 AB</b>
Photography III is an in-depth exploration of the advanced photography, photography application, and personal style in photography. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of camera techniques, creative photography techniques, using both color and black and white, while developing a portfolio of their artwork. Students develop an	03503100

<p>understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Photography III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Photography II  <u>What's Next?</u> Any specialized Level II Art course or AP Two-Dimensional Design Art Portfolio</p>	<p>Grade level: 11 - 12  Credit(s): 1  College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ART, LEVEL IV, PHOTOGRAPHY III ABH</b></p> <p>Honors Photography III is an in-depth exploration of the advanced photography, photography application, and personal style in photography. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original photographs in a using a variety of camera techniques, creative photography techniques, using both color and black and white, while developing a portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Students will explore related career areas such as advertising, layout and design, illustration, computer graphics and commercial photography. Honors Photography III is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Photography II; portfolio review  <u>What's Next?</u> Any specialized Level II Art course or AP Two-Dimensional Design Art Portfolio  <i>Course taught by a locally certified gifted teacher</i></p>	<p><b>1086 ABH</b>  03503100</p>
<p><b>ART, LEVEL II, SCULPTURE I AB</b></p> <p>Sculpture I is an in-depth exploration of three-dimensional work. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Sculpture I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art I  <u>What's Next?</u> Sculpture II, any specialized Level II Art course, or AP Three-Dimensional Design (Sculpture)  <i>Course taught by a locally certified gifted teacher</i></p>	<p><b>1028 AB</b>  03501000</p> <p>Grade level: 11 - 12  Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>ART, LEVEL II, SCULPTURE I AB</b></p> <p>Sculpture I is an in-depth exploration of three-dimensional work. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Sculpture I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art I  <u>What's Next?</u> Sculpture II, any specialized Level II Art course, or AP Three-Dimensional Design (Sculpture)  <i>Course taught by a locally certified gifted teacher</i></p>	<p><b>1028 AB</b>  03501000</p> <p>Grade level: 9 - 12  Credit(s): 1  College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ART, LEVEL II, SCULPTURE I ABH</b></p> <p>Honors Sculpture I is an in-depth exploration of three-dimensional work. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Sculpture I is a two-semester sequence course with the first semester being a prerequisite to the second semester.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> Art I  <u>What's Next?</u> Sculpture II, any specialized Level II Art course, or AP Three-Dimensional Design (Sculpture)  <i>Course taught by a locally certified gifted teacher</i></p>	<p><b>1069 ABH</b>  03501000</p>
<p><b>DUAL CREDIT ART, LEVEL II, SCULPTURE I AB</b>  <b>TCC Course: Sculpture I (ARTS 2326)</b></p> <p>Dual Credit Honors Sculpture I is an in-depth exploration of three-dimensional work. Students develop and expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Sculpture I is a one-semester sequence course.</p> <p><u>Instructional Material:</u> NA  FWISD <u>Prerequisites:</u> Art I  <u>TCC Recommended Prerequisites:</u> ARTS 1312  <u>What's Next?</u> NA  <i>Course taught by an approved District or adjunct instructor.</i></p>	<p><b>1128 AB</b>  03501000</p> <p>ECHS Grade level: 10-12  Grade level: 9 - 12  Credit(s): 1  College Hour(s): 3  <b>Tier I</b></p>

<b>ART, LEVEL III, SCULPTURE II AB</b>	<b>1092 AB</b>
Sculpture II is an in-depth exploration of three-dimensional work. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Sculpture II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03501900
<u>Instructional Material:</u> NA	Grade level: 10 - 12
<u>Prerequisites:</u> Sculpture I	Credit(s): 1
<u>What's Next?</u> Sculpture III, any specialized Level II Art course, or AP Three-Dimensional Design (Sculpture)	College Hour(s): NA
<b>HONORS ART, LEVEL III, SCULPTURE II ABH</b>	<b>Tier III</b>
<b>1071 ABH</b>	
Honors Sculpture II is an in-depth exploration of three-dimensional work. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Sculpture II is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03501900
<u>Instructional Material:</u> NA	Grade level: 10 - 12
<u>Prerequisites:</u> Sculpture I; evaluation of student portfolio/teacher recommendation	Credit(s): 1
<u>What's Next?</u> Sculpture III, any specialized Level II Art course, or AP Three-Dimensional Design (Sculpture)	College Hour(s): NA
<u>Course taught by a locally certified gifted teacher</u>	<b>Tier II</b>
<b>DUAL CREDIT ART, LEVEL III, SCULPTURE II AB</b>	<b>1192 AB</b>
<b>TCC Course: Sculpture II (ARTS 2327)</b>	
Dual Credit Sculpture II is an in-depth exploration of three-dimensional work with an emphasis on individual. Students expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Dual Credit Sculpture II is a one-semester course and a continuation of ARTS 2326.	03501900
<u>Instructional Material:</u> NA	ECHS Grade level: 10-12
<u>FWISD Prerequisites:</u> Sculpture I	Grade level: 10 – 12
<u>TCC Recommended Prerequisites:</u> ARTS 2326	Credit(s): 1
<u>What's Next?</u> NA	College Hour(s): 3
<u>Course taught by an approved District or adjunct instructor.</u>	<b>Tier I</b>
<b>ART, LEVEL IV, SCULPTURE III AB</b>	<b>1099 AB</b>
Sculpture III is an in-depth exploration of three-dimensional work. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Sculpture III is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502800
<u>Instructional Material:</u> NA	Grade level: 11 - 12
<u>Prerequisites:</u> Sculpture II;	Credit(s): 1
<u>What's Next?</u> Any specialized Level II Art course or AP Three-Dimensional Design (Sculpture)	College Hour(s): NA
<b>HONORS ART, LEVEL IV, SCULPTURE III ABH</b>	<b>Tier III</b>
<b>1100 ABH</b>	
Honors Sculpture III is an in-depth exploration of three-dimensional work. Students further expand their visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. It offers the opportunity to communicate thoughts, feelings, ideas, or impressions through original sculpted artwork in a variety of media including wood, paper, recycled materials, stone, and clay while developing a digital portfolio of their artwork comprising of rigorous assignments. Students develop an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures, as well as the ability to respond to and analyze the artworks of self and others. Honors Sculpture III is a two-semester sequence course with the first semester being a prerequisite to the second semester.	03502800

<p><u>Instructional Material:</u> NA</p> <p><u>Prerequisites:</u> Sculpture II; evaluation of student portfolio/teacher recommendation</p> <p><u>What's Next?</u> Any specialized Level II Art course or AP Three-Dimensional Design (Sculpture)</p> <p><i>Course taught by a locally certified gifted teacher</i></p>	<p>Grade level: 11 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>AP STUDIO ART: DRAWING PORTFOLIO AB III or IV</b></p> <p>AP Drawing is an introductory college-level two-dimensional design course. Students refine and apply skills and ideas they develop throughout the course to produce two-dimensional art and design. The AP Art and Design course framework is composed of course skills, big ideas, essential questions and enduring understandings, learning objectives, and essential knowledge. AP Art and Design skill categories delineate overarching understandings central to the study and practice of art and design. Each of the three skill categories consists of skills that encompass foundational to advanced learning over the span of the course. Students need to develop, practice, and apply these skills in a variety of contexts. The AP 2-D Art and Design course framework is made up of three big ideas; investigate materials, processes, and ideas, Make art and design, and present art and design. Students should practice the skills that will help them learn to think and act like artists. Students will develop a portfolio that will be submitted for critical analysis in drawing for the Advanced Placement exam in Studio Art.</p>	<p><b>1041 AB</b></p> <p>A3500300</p>
<p><u>Instructional Material:</u> NA</p> <p><u>Prerequisites:</u> Art I; any specialized area of Art II; (waived for seniors with director approval); and teacher recommendation</p> <p><u>What's Next?</u> N/A</p> <p><i>Course taught by a locally certified gifted or AP trained teacher.</i></p>	<p>Grade level: 10 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>AP STUDIO ART: TWO-DIMENSIONAL DESIGN PORTFOLIO AB III or IV</b></p> <p>AP 2-D Art and Design is an introductory college-level two-dimensional design course. Students refine and apply skills and ideas they develop throughout the course to produce two-dimensional art and design. The AP Art and Design course framework is composed of course skills, big ideas, essential questions and enduring understandings, learning objectives, and essential knowledge. AP Art and Design skill categories delineate overarching understandings central to the study and practice of art and design. Each of the three skill categories consists of skills that encompass foundational to advanced learning over the span of the course. Students need to develop, practice, and apply these skills in a variety of contexts. The AP 2-D Art and Design course framework is made up of three big ideas; investigate materials, processes, and ideas, Make art and design, and present art and design. Students should practice the skills that will help them learn to think and act like artists. Students will develop a portfolio that will be submitted for critical analysis in 2-D Design for the Advanced Placement exam in Studio Art.</p>	<p><b>1043 AB</b></p> <p>A3500400</p> <p>Grade level: 10 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><u>Instructional Material:</u> NA</p> <p><u>Prerequisites:</u> Art I; any specialized area of Art II; (waived for seniors with director approval); teacher recommendation</p> <p><u>What's Next?</u> N/A</p> <p><i>Course taught by a locally certified gifted or AP trained teacher.</i></p>	
<p><b>AP STUDIO ART: THREE-DIMENSIONAL DESIGN PORTFOLIO AB</b></p> <p>AP 3-D Art and Design is an introductory college-level three-dimensional design course. Students refine and apply skills and ideas they develop throughout the course to produce three-dimensional art and design. The AP Art and Design course framework is composed of course skills, big ideas, essential questions and enduring understandings, learning objectives, and essential knowledge. AP Art and Design skill categories delineate overarching understandings central to the study and practice of art and design. Each of the three skill categories consists of skills that encompass foundational to advanced learning over the span of the course. Students need to develop, practice, and apply these skills in a variety of contexts. The AP 3-D Art and Design course framework is made up of three big ideas; investigate materials, processes, and ideas, Make art and design, and present art and design. Students will develop a portfolio that will be submitted for critical analysis in 3-D Design for the Advanced Placement exam in Studio Art.</p>	<p><b>1020 AB</b></p> <p>A3500500</p> <p>Grade level: 10 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><u>Instructional Material:</u> NA</p> <p><u>Prerequisites:</u> Art I; any specialized area of Art II and/or Art III; (waived for seniors with director approval); teacher recommendation</p> <p><u>What's Next?</u> N/A</p> <p><i>Course taught by a locally certified gifted or AP trained teacher.</i></p>	
<p><b>TWO AND THREE-DIMENSIONAL ART LEVEL II, DESIGN I AB</b></p> <p>This Art course provides opportunities to develop skills, techniques, and processes related to both two-dimensional and three-dimensional processes and projects while using three or more of the following Art forms, i.e., Drawing, Painting, Jewelry, Photography, Glasswork, Sculpture, and more. This will be offered as a level two, Art II class and will allow second year Art students to experience a rotation of media and Art forms. The class will combine in-depth foundation studies using the Elements of Art and Principles of Design with skills and techniques as these concepts are applied to the students' individual Art work. Students will develop a portfolio, as well as use correct oral and written communication as they relate to the visual arts.</p>	<p><b>1050 AB</b></p> <p>03501210</p>
<p><u>Instructional Material:</u> <i>Communicating Through Graphic Design</i>, Davis Publications; ISBN: 9780871929884</p> <p><u>Prerequisites:</u> Art I</p> <p><u>What's Next?</u> Any level III Art course or Art Advanced Placement course</p> <p><i>Course taught by a locally certified gifted or AP trained teacher.</i></p>	<p>Grade level: 9 – 10</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>

Offered only at Terrell VPA HS.

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**HONORS TWO AND THREE-DIMENSIONAL ART LEVEL II, DESIGN I AB****1052 AB**

This Art course provides opportunities to develop skills, techniques, and processes related to both two-dimensional and three-dimensional processes and projects while using three or more of the following Art forms, i.e., Drawing, Painting, Jewelry, Photography, Glasswork, Sculpture, and more. This will be offered as a level two, Art II class and will allow second year Art students to experience a rotation of media and Art forms. The class will combine in-depth foundation studies using the Elements of Art and Principles of Design with skills and techniques as these concepts are applied to the students' individual Art work. Students will develop a portfolio, as well as use correct oral and written communication as they relate to the visual arts.

03501210

Instructional Material: *Communicating Through Graphic Design*, Davis Publications; ISBN: 9781615283255

Grade level: 9 – 10

Prerequisites: Art I

Credit(s): 1

What's Next? Any level III Art course or Art Advanced Placement course.

College Hour(s): NA

*Course taught by a locally certified gifted or AP trained teacher. Offered only at Terrell VPA HS.*

**Tier II**

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**AP ART HISTORY AB****1048 AB**

AP Art History is an introductory college-level art history course. Students cultivate their understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis. Students must know, be able to do, and understand, with a focus on the big ideas that encompass core principles, theories, and processes of the discipline. The framework also encourages instruction that prepares students to understand representative works of art from diverse cultures, including placing these works in context and illuminating relationships among them. Students should practice the skills that will help them learn to think and act like art historians. Many colleges and universities offer advanced placement and/or credit to students who perform successfully on the AP Art History Exam.

A3500100

Grade level: 9 – 12

Credit(s): 1

College Hour(s): NA

**Tier I**

Instructional Material: *1209 – Gardner's Art Through the Ages: A Global History, Kleiner, 15th Edition, plus eBook access card; ISBN: 9781285754994*

Prerequisites: Aptitude for art history and motivation is demonstrated with a teacher recommendation

What's Next? N/A

*Course taught by a locally certified gifted or AP trained teacher.*

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**FINE ARTS, LEVEL IV, VPA CAPSTONE AB****VPA1000 AB**

The aim of this course is to provide opportunity for students to explore college preparation and professional applications of their VPA craft. Advanced credit with college and career readiness focused assignments and special projects will be approved and monitored by the instructor. Students will document their four years of VPA work through the completion of their portfolio in the first semester. Students will receive opportunities to job shadow and/or participate in unpaid practicums, networking, preparation of interview and audition requirements, and be able to creatively advocate their art to peers and members of the arts community. Students will investigate careers in the arts, develop problem solving skills and apply their art to a service learning action project. Students will actively prepare their capstone project to be presented in the spring semester (recital, gallery exhibit, direction of play, or project).

84500XXX

Grade level: 12

Credit(s): Local Credit

College Hour(s): NA

Instructional Material: N/A

Prerequisites: Level I-III of a Fine Arts Content

What's Next? N/A

*This is for local credit only and only available at I.M. Terrell Academy for STEM & VPA.*



## CHOIR

<b>Concert Choir</b>	1422, 1424, 1426, 1428
<b>A Cappella Choir</b>	1430, 1432, 1434, 1436
<b>Show Choir</b>	1442, 1444, 1446, 1448
<b>Treble Choir</b>	1451, 1453, 1455, 1457
<b>Tenor/Bass Choir</b>	1459, 1461, 1463, 1465

Students must complete both A and B to receive state graduation credit for fine arts.  
 Honors courses are also available.  
 ALL courses require a teacher recommendation and audition.

<b>MUSIC I CHOIR AB (CONCERT)</b>	<b>1422 AB</b> - 03150900
<b>MUSIC II CHOIR AB (CONCERT)</b>	<b>1424 AB</b> - 03151000
<b>MUSIC III CHOIR AB (CONCERT)</b>	<b>1426 AB</b> - 03151100
<b>MUSIC IV CHOIR AB (CONCERT)</b>	<b>1428 AB</b> - 03151200
Provides students with basic musical instruction in various musical styles and genres, as well as vocal pedagogy and music theory. In addition, students are <u>encouraged</u> to participate in TMEA All State auditions and Solo and Ensemble contests. Participation at all choir performances, including the UIL Concert & Sight-reading Evaluation, are required. Students are encouraged to attend outside concerts/performance to develop critical listening skills.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> Contact Content Director	<b>Tier III</b>
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<b>MUSIC I CHOIR AB (CONCERT), HONORS</b>	<b>1423 ABH</b> - 03150900
<b>MUSIC II CHOIR AB (CONCERT), HONORS</b>	<b>1425 ABH</b> - 03151000
<b>MUSIC III CHOIR AB (CONCERT), HONORS</b>	<b>1427 ABH</b> - 03151100
<b>MUSIC IV CHOIR AB (CONCERT), HONORS</b>	<b>1429 ABH</b> - 03151200
Provides students with basic music instruction in various musical styles and genres, as well as vocal pedagogy and music theory. In addition, students are <u>required</u> to participate in TMEA All State auditions and Solo and Ensemble contests. Participation at all choir performances and the UIL Concert & Sight-Reading Evaluation are required. Honors students will attend outside concerts/performance and write critiques using TMAA rubrics.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> Contact Content Director	<b>Tier II</b>
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<u>What's Next?</u> N/A	
<b>MUSIC I CHOIR AB (A CAPPELLA)</b>	<b>1430 AB</b> - 03150900
<b>MUSIC II CHOIR AB (A CAPPELLA)</b>	<b>1432 AB</b> - 03151000
<b>MUSIC III CHOIR AB (A CAPPELLA)</b>	<b>1434 AB</b> - 03151100
<b>MUSIC IV CHOIR AB (A CAPPELLA)</b>	<b>1436 AB</b> - 03151200
Provides choristers with advanced training in the mastery of vocal pedagogy, rigorous sight-reading and ear training, and immersion in all genres of choral music. In addition, students must participate in TMEA All State auditions, UIL Concert & Sight Reading, and UIL Solo and Ensemble auditions. Attendance at all performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> Contact Content Director	<b>Tier III</b>
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<u>What's Next?</u> N/A	
<b>MUSIC I CHOIR AB (A CAPPELLA), HONORS</b>	<b>1438 AB</b> - 03150900
<b>MUSIC II CHOIR AB (A CAPPELLA), HONORS</b>	<b>1440 AB</b> - 03151000
<b>MUSIC III CHOIR AB (A CAPPELLA), HONORS</b>	<b>1439 AB</b> - 03151100
<b>MUSIC IV CHOIR AB (A CAPPELLA), HONORS</b>	<b>1441 AB</b> - 03151200
Provides choristers with advanced training in the mastery of vocal pedagogy, rigorous sight-reading and ear training, and immersion in all genres of choral music. In addition, students must participate in TMEA All State auditions, UIL Concert & Sight Reading, UIL Solo and Ensemble auditions, attend concerts and write Concert/performance critiques, and write papers on assigned composers, musical styles and periods. Attendance at all performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> Contact Content Director	<b>Tier II</b>
<u>Prerequisites:</u> Placement based by audition only; successful performance on sight-reading skills tests; concurrent membership in the most advanced chorus in the school music department taken in sequence.	
<u>What's Next?</u> N/A	

<b>MUSIC I VOCAL ENSEMBLE AB (SHOW CHOIR)</b>	<b>1442 AB</b> - 03153400
<b>MUSIC II VOCAL ENSEMBLE AB (SHOW CHOIR)</b>	<b>1444 AB</b> - 03153500
<b>MUSIC III VOCAL ENSEMBLE AB (SHOW CHOIR)</b>	<b>1446 AB</b> - 03153600
<b>MUSIC IV VOCAL ENSEMBLE AB (SHOW CHOIR)</b>	<b>1448 AB</b> - 03153700
<p>Introduces students to different musical genres and performance styles that are not typically taught in a classical choral setting. This musical style can include choreography and introduces vocal techniques necessary for understanding and appreciating fine musical performances through various styles of literature, such as pop, rock, contemporary a cappella and jazz. Attendance at all performances and rehearsals is required.</p> <p><i>The student can earn PE credit for Music II, Show Choir IIAB as a TEKS-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per week if it is not being used to satisfy another graduation requirement. The teacher does not have to be certified in PE. See Health &amp; Physical Education section for course #.</i></p>	<p>Grade level: 9 – 12            Credit(s): 1            College Hour(s): NA  <b>Tier III</b></p>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Auditioned by instructor; taken in sequence	
<u>What's Next?</u> N/A	
<b>MUSIC I VOCAL ENSEMBLE AB (SHOW CHOIR), HONORS</b>	<b>1415 AB</b> - 03153400
<b>MUSIC II VOCAL ENSEMBLE AB (SHOW CHOIR), HONORS</b>	<b>1417 AB</b> - 03153500
<b>MUSIC III VOCAL ENSEMBLE AB (SHOW CHOIR), HONORS</b>	<b>1419 AB</b> - 03153600
<b>MUSIC IV VOCAL ENSEMBLE AB (SHOW CHOIR), HONORS</b>	<b>1421 AB</b> - 03153700
<p>Continues the rigorous immersion for students to experience different musical genres and performance styles that are not typically taught in a classical choral setting. This musical style can include choreography and introduces vocal techniques necessary for understanding and appreciating fine musical performances through various styles of literature, such as pop, rock, contemporary a cappella and jazz. Attendance at all performances and rehearsals is required. Students will create audition recordings and prepare audition materials for university and/or professional auditions.</p>	<p>Grade level: 9 – 12            Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Auditioned by instructor; taken in sequence	
<u>What's Next?</u> N/A	
<b>MUSIC I VOCAL ENSEMBLE AB (TREBLE CHOIR)</b>	<b>1451 AB</b> - 03152100
<b>MUSIC II VOCAL ENSEMBLE AB (TREBLE CHOIR)</b>	<b>1453 AB</b> - 03152200
<b>MUSIC III VOCAL ENSEMBLE AB (TREBLE CHOIR)</b>	<b>1455 AB</b> - 03152300
<b>MUSIC IV VOCAL ENSEMBLE AB (TREBLE CHOIR)</b>	<b>1457 AB</b> - 03152400
<p>Offers instruction for those students who wish to improve their vocal skills and techniques necessary for the performance of music for treble voices (same as other ensembles). In addition, students are encouraged to participate in TMEA All State auditions and UIL Solo and Ensemble auditions. Attendance at all performances is required, including the UIL Concert &amp; Sight-reading Evaluation.</p>	<p>Grade level: 9 – 12            Credit(s): 1            College Hour(s): NA  <b>Tier III</b></p>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<u>What's Next?</u> N/A	
<b>MUSIC I VOCAL ENSEMBLE AB (TREBLE CHOIR), HONORS</b>	<b>1450 AB</b> - 03152100
<b>MUSIC II VOCAL ENSEMBLE AB (TREBLE CHOIR), HONORS</b>	<b>1452 AB</b> - 03152200
<b>MUSIC III VOCAL ENSEMBLE AB (TREBLE CHOIR), HONORS</b>	<b>1454 AB</b> - 03152300
<b>MUSIC IV VOCAL ENSEMBLE AB (TREBLE CHOIR), HONORS</b>	<b>1456 AB</b> - 03152400
<p>Provides students advanced musical instruction in various musical styles and genres of treble choral music. Incorporates various choral music techniques in order to better understand and appreciate culturally diverse styles of treble music literature. In addition, students are required to participate in TMEA All State auditions, UIL Concert &amp; Sight Reading, UIL Solo and Ensemble auditions, attend outside concerts and write concert/performance critiques; write papers on assigned composers, musical styles and periods. Attendance at all performances is required.</p>	<p>Grade level: 9 – 12            Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<u>What's Next?</u> N/A	
<b>MUSIC I VOCAL ENSEMBLE AB (TENOR/BASS CHOIR)</b>	<b>1459 AB</b> - 03152100
<b>MUSIC II VOCAL ENSEMBLE AB (TENOR/BASS CHOIR)</b>	<b>1461 AB</b> - 03152200
<b>MUSIC III VOCAL ENSEMBLE AB (TENOR/BASS CHOIR)</b>	<b>1463 AB</b> - 03152300
<b>MUSIC IV VOCAL ENSEMBLE AB (TENOR/BASS CHOIR)</b>	<b>1465 AB</b> - 03152400
<p>Offers instruction for those students who wish to improve their vocal skills and techniques necessary for the performance of music for tenor/bass voices (same as other ensembles). In addition, students are encouraged to participate in TMEA All State auditions and UIL Solo and Ensemble auditions. Attendance at all performances, including the UIL Concert &amp; Sight-reading Evaluation, is required.</p>	<p>Grade level: 9 – 12            Credit(s): 1            College Hour(s): NA  <b>Tier III</b></p>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<u>What's Next?</u> N/A	

<b>MUSIC I VOCAL ENSEMBLE AB (TENOR/BASS CHOIR), HONORS</b>	<b>1460 AB</b> - 03152100
<b>MUSIC II VOCAL ENSEMBLE AB (TENOR/BASS CHOIR), HONORS</b>	<b>1462 AB</b> - 03152200
<b>MUSIC III VOCAL ENSEMBLE AB (TENOR/BASS CHOIR), HONORS</b>	<b>1464 AB</b> - 03152300
<b>MUSIC IV VOCAL ENSEMBLE AB (TENOR/BASS CHOIR), HONORS</b>	<b>1466 AB</b> - 03152400
Provides students advanced musical instruction in various musical styles and genres. Incorporates various choral music techniques in order to better understand and appreciate culturally diverse styles of tenor/bass music literature. In addition, students are required to participate in TMEA All State auditions, UIL Concert & Sight Reading, UIL Solo and Ensemble auditions, attend outside concerts and write concert/performance critiques, and write papers on assigned composers, musical styles and periods. Attendance at all performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier II</b>
<u>Prerequisites:</u> Placement based by audition only; taken in sequence	
<u>What's Next?</u> N/A	

## Music Studies

<b>MUSIC STUDIES, MUSIC THEORY I AB</b>	<b>1481 AB</b>
Provides a study of the basic fundamentals of music. Develops an understanding of rhythmic and melodic notation, scale structure, intervals, and chords. Provides an opportunity for arranging and composing.	03155400 Grade level: 9 - 12
<u>Instructional Material:</u> <i>Contact Content Director</i>	Credit(s): 1
<u>Prerequisites:</u> Taken in sequence	College Hour(s): NA
<u>What's Next?</u> Music Theory II AB	<b>Tier III</b>
<b>MUSIC STUDIES, HONORS MUSIC THEORY I AB</b>	<b>VPA1481 ABH</b>
This course will develop students' understanding of the foundational elements of music. Students will discover the building blocks of tonal analysis—pitch and rhythm, through analysis, performance, and composition. Students will learn to listen critically, identify and notate intervals, and sight-read. A majority of the time will be spent on pentatonic and modal music, as well as learning all major and minor scales.	03155400 Grade level: 9 Credit(s): 1
<u>Instructional Material:</u> <i>Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> None	<b>Tier II</b>
<u>What's Next?</u> Honors Music Theory II VPA1483 ABH <i>Only available at I.M. Terrell Academy for STEM &amp; VPA.</i>	
<b>MUSIC STUDIES, MUSIC THEORY II AB</b>	<b>1483 AB</b>
Provides continued and advanced study of the basic fundamentals of music. Maintains an understanding of rhythmic and melodic notation, scale structure, intervals, and chords. Provides an opportunity for arranging and composing.	03155500 Grade level: 9 – 12
<u>Instructional Material:</u> <i>Contact Content Director</i>	Credit(s): 1
<u>Prerequisites:</u> Music Theory IAB; taken in sequence	College Hour(s): NA
<u>What's Next?</u> AP Music Theory	<b>Tier III</b>
<b>MUSIC STUDIES, HONORS MUSIC THEORY II AB</b>	<b>VPA1483 ABH</b>
Students will begin to analyze and compose Western tonal music employing the rubrics of rhythm and meter, pitch, key signatures, intervals, scales, chords, inversions, harmonic progression, and SATB voice leading. Students will also perform melodies and rhythms at sight, and notate dictations of rhythms, melodies and harmonic progressions.	03155500 Grade level: 10 Credit(s): 1
<u>Instructional Material:</u> <i>Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> Honors Music Theory I VPA1481 ABH; taken in sequence	<b>Tier II</b>
<u>What's Next?</u> AP Music Theory <i>Only available at I.M. Terrell Academy for STEM &amp; VPA.</i>	
<b>AP MUSIC THEORY AB</b>	<b>1473 AB</b>
Provides students with a serious introduction to a broad repertoire of musical pieces and develops the listening skills needed to appreciate these pieces as works of art. Compares and contrasts the relationship of musical works, composers, forms, and styles to the political and social events of their musical and historical periods. Students listen to major works, study elements of music, write a research paper, and attend concerts. Satisfies state fine arts credit.	A3150200 Grade level: 11 - 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier I</b>
<u>Prerequisites:</u> Music Theory II AB; taken in sequence for students at IM Terrell Academy for STEM & VPA; other campuses by teacher approval <i>Course taught by a locally AP trained teacher.</i>	
<b>MUSIC STUDIES, MUSIC PRODUCTION I</b>	<b>1334 AB</b>
<b>MUSIC STUDIES, MUSIC PRODUCTION II</b>	<b>1332 AB</b>
Music Production is designed to supplement the traditional performance-based school music curriculum with knowledge and skills increasingly more relevant to 21st century musical practices. Students will learn principles of live sound reinforcement with emphasis placed on creative rather than re-creative aspects of the musical experience. This course will integrate musical understanding and contemporary technology. After completing this class, students will be able to assemble, disassemble, and operate basic reinforcement equipment in a live sound	03156200 03156300 Grade level: 9 – 12

environment as well as digitally record and produce audio onto CD/DVD. Additionally, students may find entry-level employment with live music venues, sound companies, and churches as a stage hand, engineer, or an assistant engineer.	Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Previous instrumental or vocal performance ensemble experience, experience working with computers, common peripherals, and permission of instructor.	
<u>What's Next?</u> Music and Media Communication II AB	
<b>HONORS MUSIC STUDIES, MUSIC AND MEDIA COMMUNICATION I AB</b>	<b>1497 ABH</b>
Honors Music and Media Communication I students will complete special projects (i.e. research projects, written critiques of professional and amateur performances) to earn honors credit. Additional hours are required to produce a portfolio of audio and visual work on CD/DVD, as well as to perform these works at concerts throughout the year. Honors MMC students will demonstrate introductory skills with Pro Tools recording software on the path to earn industry certification. Placement based on audition. This course is offered only at Southwest High School through the Music & Sound Design program.	03156400  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>No state adopted textbook(s)/Contact Coordinator of Choral and General Music</i>	
<u>Prerequisites:</u> None	
<u>What's Next?</u> Music and Media Communication II AB	
<i>Offered only at: Southwest Music &amp; Sound Design Program</i>	
<b>DUAL CREDIT MUSIC STUDIES, MUSIC APPRECIATION I AB</b>	<b>1504 AB</b>
<b>TCC Course: Music Appreciation (MUSI 1306)</b>	03155600
Understanding music through the study of cultural periods, major composers, and musical elements, illustrated with audio recordings and live performances.	ECHS Grade level: 10-12 Grade level: NA  Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<u>Instructional Material:</u> NA	
<u>FWISD &amp; TCC Prerequisites:</u> None	
<u>What's Next?</u> N/A	
<i>Course taught by an approved District or adjunct instructor.</i>	
<b>DUAL CREDIT MUSIC STUDIES, MUSIC AND MEDIA COMMUNICATION I AB</b>	<b>1495 AB</b>
<b>TCC Course: American Music (MUSI 1310)</b>	03156400
General survey of various styles of music in America. Topics may include jazz, ragtime, folk, rock, and contemporary art music.	ECHS Grade level: 10-12 Grade level: NA  Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<u>Instructional Material:</u> NA	
<u>FWISD &amp; TCC Prerequisites:</u> None	
<u>What's Next?</u> N/A	
<i>Course taught by an approved District or adjunct instructor.</i>	
<b>MUSIC STUDIES, MUSIC AND MEDIA COMMUNICATION IIAB</b>	<b>1498 AB</b>
Music and Media Communications II builds upon the foundational music and technology skills taught in the Music and Media Communications I survey course and provides opportunities for students to apply and synthesize knowledge and skills through relevant, real-world projects. Students will explore in depth music-related technical professions and components of media production, including commercial career pathways in advertising, marketing, entertainment, and game design. The course provides hands-on, experiential learning in music, including composition, recording, production, and performance, integrated with instruction focused on technology applications, media literacy, and 21st century skills. A key focus of the course is on collaborative design and production of musical products and the function of participatory media in contemporary musical contexts. As they learn the role of technology and media in creating and enhancing the impact of a musical work, students will document their work in the course in a professional-level digital portfolio. Students may follow MMC II with Music Production or Instrumental Ensemble (contemporary) based upon audition. This course is offered only at Southwest High School through the Music & Sound Design program.	03156500  Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>No state adopted textbook(s)/Contact Coordinator of Choral and General Music</i>	
<u>Prerequisites:</u> Music and Media Communication I AB; taken in sequence	
<i>Offered only at: Southwest Music &amp; Sound Design Program</i>	
<b>HONORS MUSIC STUDIES, MUSIC AND MEDIA COMMUNICATION IIAB</b>	<b>1499 ABH</b>
Honors Music and Media Communication II students will complete special projects (i.e. products aimed at sharing with a wide audience either through the web or a site-specific interactive performance) to earn honors credit. Additional hours are required to produce a portfolio of audio and visual work on CD/DVD, as well as to perform these works at concerts and special events throughout the year. Honors MMC II students will demonstrate intermediate to advanced skills with Pro Tools recording software on the path to earn industry certification. Placement based on audition. This course is offered only at Southwest High School through the Music & Sound Design program.	03156500  Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>No state adopted textbook(s)/Contact Coordinator of Choral and General Music</i>	
<u>Prerequisites:</u> Music and Media Communication IAB; taken in sequence	
<i>Offered only at: Southwest Music &amp; Sound Design Program</i>	
<b>FINE ARTS, LEVEL IV, VPA CAPSTONE AB</b>	<b>VPA1000 AB</b>
The aim of this course is to provide opportunity for students to explore college preparation and professional applications of their VPA craft. Advanced credit with college and career readiness focused assignments and special	84500XXX

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projects will be approved and monitored by the instructor. Students will document their four years of VPA work through the completion of their portfolio in the first semester. Students will receive opportunities to job shadow and/or participate in unpaid practicums, networking, preparation of interview and audition requirements, and be able to creatively advocate their art to peers and members of the arts community. Students will investigate careers in the arts, develop problem solving skills and apply their art to a service learning action project. Students will actively prepare their capstone project to be presented in the spring semester (recital, gallery exhibit, direction of play, or project).

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Grade level: 12  
Credit(s): Local Credit  
College Hour(s): NA

Instructional Material: N/A

Prerequisites: Level I-III of a Fine Arts Content

What's Next? N/A

*This is for local credit only and only available at I.M. Terrell Academy for STEM & VPA.*

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**HONORS MUSIC STUDIES, ETHNOMUSICOLOGY: WORLD MUSIC PERSPECTIVES AB**

**1587 ABH**

This course explores the ways that music is both shaped by and gives shape to the cultural settings in which it is performed. This study will consider music as a functional activity in people's lives, as a symbol of historical or national identity, and as a form of artistic expression. Students will listen to, analyze, perform, and compose music in a variety of styles from around the world. Course work includes an overview of Western music, cultivating active listening skills and music journaling/aural analysis, daily hands-on music making, composition, live demonstrations by guest artists, and ethnographic research projects. Students will gain a deeper understanding of other cultures, as well as their own.

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03155400

Grade level: 12  
Credit(s): 1  
College Hour(s): NA  
**Tier II**

Instructional Material: Contact Content Director

Prerequisites: AP Music Theory

*Course is only available at I.M. Terrell Academy for STEM & VPA.*

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**HONORS MUSIC STUDIES, MUSIC AND MOVEMENT: MUSIC THEORY FOR THE DANCER ABH**

**1586 ABH**

The course introduces dancers to the fundamentals of music (rhythm, harmony, and melody) to equip them with a working musical vocabulary, surveys the history of Western music, and critically engages with contemporary, folk, popular, and Non-western music performance and compositional practice in relation to collaboration with modern dance choreography. Students will cultivate active listening skills, engage in thought-provoking student-led discussions and guest lectures, critically analyze and reflect through journaling, participate in daily hands-on music making, compose, dance, and present research projects.

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84500XXX

Grade level: 11-12  
Credit(s): Local Credit  
College Hour(s): NA

Instructional Material: Contact Content Director

Prerequisites: Teacher approval required; placement by audition only

*This is for local credit only and only available at I.M. Terrell Academy for STEM & VPA.*

# INSTRUMENTAL MUSIC

MARIACHI	GUITAR	PIANO	JAZZ ENSEMBLE
1202, 1204, 1206, 1208	1218, 1220, 1222, 1224	1234, 1236, 1238, 1240	1396, 1397, 1398, 1399

## BRASS, WOODWIND, & PERCUSSION

1250, 1252, 1254, 1256

	BAND	INST ENSEMBLE	ORCHESTRA
<b>Sub Non-Varsity</b>	1313, 1314, 1315, 1316	1341, 1342, 1343, 1344	1349, 1350, 1351, 1352
<b>Non-Varsity</b>	1317, 1318, 1319, 1320	1345, 1346, 1347, 1348	1353, 1354, 1355, 1356
<b>Varsity</b>	1382, 1384, 1386, 1388	1402, 1404, 1406, 1408	1410, 1412, 1414, 1416

Students must complete both A and B to receive state graduation credit for fine arts.

Honors courses are also available.

ALL courses require a teacher recommendation and audition for placement.

**ATTENDANCE AT ALL REHEARSALS AND PERFORMANCES IS REQUIRED.**

<b>MUSIC I BAND (SUB NON-VARSITY) IAB</b>	<b>1313 AB</b> - 03150100
<b>MUSIC II BAND (SUB NON-VARSITY) IIAB</b>	<b>1314 AB</b> - 03150200
<b>MUSIC III BAND (SUB NON-VARSITY) IIIAB</b>	<b>1315 AB</b> - 03150300
<b>MUSIC IV BAND (SUB NON-VARSITY) IVAB</b>	<b>1316 AB</b> - 03150400

Provides instruction for sub non-varsity band students to continue their development of characteristic tone quality, instrumental skills/techniques, music literacy, ear training, and marching fundamentals at the appropriate level. This select ensemble will require mandatory attendance at all rehearsals, performances, football games, parades, pep rallies, marching festivals and competitions. In addition to the Fine Arts credit, Band students also receive a .5 PE substitution credit in the first semester for participation in the marching band component of the course. A physical examination is required for participation.

Grade level: 9 – 12  
Credit(s): 1  
College Hour(s): NA  
**Tier III**

Instructional Material: Contact Content Director

Prerequisites: Placement based on audition; taken in sequence

<b>MUSIC I BAND (NON-VARSITY) IAB</b>	<b>1317 AB</b> - 03150100
<b>MUSIC II BAND (NON-VARSITY) IIAB</b>	<b>1318 AB</b> - 03150200
<b>MUSIC III BAND (NON-VARSITY) IIIAB</b>	<b>1319 AB</b> - 03150300
<b>MUSIC IV BAND (NON-VARSITY) IV AB</b>	<b>1320 AB</b> - 03150400

Provides instruction for non-varsity band students to continue their development of characteristic tone quality, instrumental skills/techniques, music literacy, ear training, and marching fundamentals at the appropriate level. This select ensemble will require mandatory attendance at all rehearsals, performances, football games, parades, pep rallies, marching festivals and competitions. In addition to the Fine Arts credit, Band students also receive a .5 PE substitution credit in the first semester for participation in the marching band component of the course. A physical examination is required for participation.

Grade level: 9 – 12  
Credit(s): 1  
College Hour(s): NA  
**Tier III**

Instructional Material: Contact Content Director

Prerequisites: Placement based on audition; taken in sequence

<b>MUSIC I BAND (NON-VARSITY) HONORS IABH</b>	<b>1321 AB</b> - 03150100
<b>MUSIC II BAND (NON-VARSITY) HONORS IIABH</b>	<b>1322 AB</b> - 03150200
<b>MUSIC III BAND (NON-VARSITY) HONORS IIIABH</b>	<b>1323 AB</b> - 03150300
<b>MUSIC IV BAND (NON-VARSITY) HONORS IVABH</b>	<b>1324 AB</b> - 03150400

Provides opportunities for non-varsity band students to earn honors credit for study and performance of above-level music and etudes. Independent musicianship, juried recitals (refers to UIL Solo and Ensemble or equivalent), and special projects (e.g., research projects, written critiques of professional and amateur performances) to earn honors credit. The students are required to prepare and audition for TMEA All-Region and All-District Honors Band. This select ensemble will require mandatory attendance at all rehearsals, performances, football games, parades, pep rallies, marching festivals and competitions. In addition to the Fine Arts credit, Band students also receive a .5 PE substitution credit in the first semester for participation in the marching band component of the course. A physical examination is required for participation.

Grade level: 9 – 12  
Credit(s): 1  
College Hour(s): NA  
**Tier II**

Instructional Material: Contact Content Director

Prerequisites: Placement based on audition; taken in sequence

<b>MUSIC I BAND (VARSITY) IAB</b>	<b>1382 AB</b> - 03150100
<b>MUSIC II BAND (VARSITY) IIAB</b>	<b>1384 AB</b> - 03150200
<b>MUSIC III BAND (VARSITY) IIIAB</b>	<b>1386 AB</b> - 03150300
<b>MUSIC IV BAND (VARSITY) IVAB</b>	<b>1388 AB</b> - 03150400
Provides instruction for varsity band students to continue their development of characteristic tone quality, instrumental skills/techniques, music literacy, ear training, and marching fundamentals at the appropriate level. This select ensemble will require mandatory attendance at all rehearsals, performances, football games, parades, pep rallies, marching festivals and competitions. In addition to the Fine Arts credit, Band students also receive a .5 PE substitution credit in the first semester for participation in the marching band component of the course. A physical examination is required for participation.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I BAND (VARSITY) HONORS IABH</b>	<b>1379 ABH</b> - 03150100
<b>MUSIC II BAND (VARSITY) HONORS IIABH</b>	<b>1380 ABH</b> - 03150200
<b>MUSIC III BAND (VARSITY) HONORS IIIABH</b>	<b>1389 ABH</b> - 03150300
<b>MUSIC IV BAND (VARSITY) HONORS IVABH</b>	<b>1390 ABH</b> - 03150400
Provides opportunities for varsity-level band students to earn honors credit for study and performance of above-level music and etudes. Independent musicianship, juried recitals (refers to UIL Solo and Ensemble or equivalent), and special projects (e.g., research projects, written critiques of professional and amateur performances) to earn honors credit. The students are required to prepare and audition for TMEA All-Region and All-District Honors Band. This select ensemble will require mandatory attendance at all rehearsals, performances, football games, parades, pep rallies, marching festivals and competitions. In addition to the Fine Arts credit, Band students also receive a .5 PE substitution credit in the first semester for participation in the marching band component of the course. A physical examination is required for participation.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I INSTRUMENTAL ENSEMBLE (SUB NON-VARSITY) IAB</b>	<b>1341 AB</b> - 03151700
<b>MUSIC II INSTRUMENTAL ENSEMBLE (SUB NON-VARSITY) IIAB</b>	<b>1342 AB</b> - 03151800
<b>MUSIC III INSTRUMENTAL ENSEMBLE (SUB NON-VARSITY) IIIAB</b>	<b>1343 AB</b> - 03151900
<b>MUSIC IV INSTRUMENTAL ENSEMBLE (SUB NON-VARSITY) IVAB</b>	<b>1344 AB</b> - 03152000
Offers sub non-varsity instrumental ensemble students the opportunity to continue to develop and refine technical skills and increase their music knowledge with literature selected for performance and listening. Instrumental Ensemble Classes may include but are not limited to Mariachi Ensembles, Medium Ensembles, Woodwind Ensembles, Brass Ensembles, Percussion Ensembles, String Ensembles, Chamber Ensembles, or individual solo studies. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I INSTRUMENTAL ENSEMBLE (NON-VARSITY) IAB</b>	<b>1345 AB</b> - 03151700
<b>MUSIC II INSTRUMENTAL ENSEMBLE (NON-VARSITY) IIAB</b>	<b>1346 AB</b> - 03151800
<b>MUSIC III INSTRUMENTAL ENSEMBLE (NON-VARSITY) IIIAB</b>	<b>1347 AB</b> - 03151900
<b>MUSIC IV INSTRUMENTAL ENSEMBLE (NON-VARSITY) IVAB</b>	<b>1348 AB</b> - 03152000
Offers non-varsity instrumental ensemble students the opportunity to continue to develop and refine technical skills and increase their music knowledge with literature selected for performance and listening. Instrumental Ensemble Classes may include but are not limited to Mariachi Ensembles, Medium Ensembles, Woodwind Ensembles, Brass Ensembles, Percussion Ensembles, String Ensembles, Chamber Ensembles, or individual solo studies. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I INSTRUMENTAL ENSEMBLE (NON-VARSITY) HONORS IABH</b>	<b>1361 ABH</b> - 03151700
<b>MUSIC II INSTRUMENTAL ENSEMBLE (NON-VARSITY) HONORS IIABH</b>	<b>1362 ABH</b> - 03151800
<b>MUSIC III INSTRUMENTAL ENSEMBLE (NON-VARSITY) HONORS IIIABH</b>	<b>1363 ABH</b> - 03151900
<b>MUSIC IV INSTRUMENTAL ENSEMBLE (NON-VARSITY) HONORS IVAB</b>	<b>1364 ABH</b> - 03152000
Offers non-varsity instrumental ensemble students the opportunity to continue to develop and refine technical skills and increase their music knowledge with literature selected for performance and listening. Instrumental Ensemble Classes may include but are not limited to Mariachi Ensembles, Medium Ensembles, Woodwind Ensembles, Brass Ensembles, Percussion Ensembles, String Ensembles, Chamber Ensembles, or individual solo studies. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Content Director	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	

<b>MUSIC I INSTRUMENTAL ENSEMBLE (VARSITY) IAB</b>	<b>1402 AB</b> - 03151700
<b>MUSIC II INSTRUMENTAL ENSEMBLE (VARSITY) IIB</b>	<b>1404 AB</b> - 03151800
<b>MUSIC III INSTRUMENTAL ENSEMBLE (VARSITY) IIIB</b>	<b>1406 AB</b> - 03151900
<b>MUSIC IV INSTRUMENTAL ENSEMBLE (VARSITY) IVAB</b>	<b>1408 AB</b> - 03152000
Offers varsity instrumental ensemble students the opportunity to continue to develop and refine technical skills and increase their music knowledge with literature selected for performance and listening. Instrumental Ensemble Classes may include but are not limited to Mariachi Ensembles, Medium Ensembles, Woodwind Ensembles, Brass Ensembles, Percussion Ensembles, String Ensembles, Chamber Ensembles, or individual solo studies. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> Contact Content Director <u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I INSTRUMENTAL ENSEMBLE (VARSITY) HONORS IABH</b>	<b>1365 ABH</b> - 03151700
<b>MUSIC II INSTRUMENTAL ENSEMBLE (VARSITY) HONORS IIBH</b>	<b>1366 ABH</b> - 03151800
<b>MUSIC III INSTRUMENTAL ENSEMBLE (VARSITY) HONORS IIIBH</b>	<b>1367 ABH</b> - 03151900
<b>MUSIC IV INSTRUMENTAL ENSEMBLE (VARSITY) HONORS IVABH</b>	<b>1368 ABH</b> - 03152000
Varsity Instrumental Ensemble students, through Mariachi Ensembles, Medium Ensembles, Woodwind Ensembles, Brass Ensembles, Percussion Ensembles, String Ensembles, Chamber Ensembles, or individual solo studies, will demonstrate independent musicianship, perform juried recitals (refers to UIL Solo and Ensemble or equivalent) and complete special projects (i.e. research projects, written critiques of professional and amateur performances) to earn honors credit. The students are required to prepare and audition for TMEA All-Region. This select ensemble will require mandatory attendance at all rehearsals, concerts, festivals and competitions. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Content Director <u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, MARIACHI IA/B</b>	<b>1202 AB</b> - 03153800
<b>MUSIC II, MARIACHI IIA/B</b>	<b>1204 AB</b> - 03153900
<b>MUSIC III, MARIACHI IIIA/B</b>	<b>1206 AB</b> - 03154000
<b>MUSIC IV, MARIACHI IVA/B</b>	<b>1208 AB</b> - 03154100
Provides students in the proper historical techniques and styles of the mariachi ensemble. Emphasis is placed on individual and ensemble tone production, mastery of fundamentals, and music reading. The students are reinforced with skills needed for the intricate rhythm, techniques, styles of the Latino cultural heritage for the voice, trumpet, violin, vihuela, guitar, and /or guitarron. Students in this class must demonstrate a high level of commitment and superior citizenship to be successful. This is a select ensemble and performances will be given during the semester at concerts, festivals, and contests. Placement based upon audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> Contact Content Director <u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, MARIACHI I HONORS I A/B/H</b>	<b>1210 ABH</b> - 03153800
<b>MUSIC II, MARIACHI II HONORS II A/B/H</b>	<b>1212 ABH</b> - 03153900
<b>MUSIC III, MARIACHI III HONORS III A/B/H</b>	<b>1214 ABH</b> - 03154000
<b>MUSIC IV, MARIACHI IV HONORS IV A/B/H</b>	<b>1216 ABH</b> - 03154100
Provides students in the proper historical techniques and styles of the mariachi ensemble. Emphasis is placed on individual and ensemble tone production, mastery of fundamentals, and music reading. The students are reinforced with skills needed for the intricate rhythm, techniques, styles of the Latino cultural heritage for the voice, trumpet, violin, vihuela, guitar, and /or guitarron. Students in this class must demonstrate a high level of commitment and superior citizenship to be successful. The students are required to prepare and audition for TMEA All-Region and all district sponsored events. This is a select ensemble and performances will be given during the semester at concerts, festivals, and contests. Placement based upon audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Content Director <u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, GUITAR IA/B</b>	<b>1218 AB</b> - 03154600
<b>MUSIC II, GUITAR IIA/B</b>	<b>1220 AB</b> - 03154700
<b>MUSIC III, GUITAR IIIA/B</b>	<b>1222 AB</b> - 03154800
<b>MUSIC IV, GUITAR IVA/B</b>	<b>1224 AB</b> - 03154900
Provides students in the proper historical techniques and styles of the mariachi ensemble. Emphasis is placed on individual and ensemble tone production, mastery of fundamentals, and music reading. The students are reinforced with skills needed for the intricate rhythm, techniques, styles of the Latino cultural heritage for the voice, trumpet, violin, vihuela, guitar, and/or guitarron. Students in this class must demonstrate a high level of commitment and superior citizenship to be successful. Performances will be given during the semester at concerts, festivals, and contests. This is a select ensemble and performances will be given during the semester at concerts, festivals, and contests. Placement based upon audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> Contact Content Director <u>Prerequisites:</u> Placement based on audition; taken in sequence	



<b>MUSIC I, GUITAR I HONORS A/B/H</b>	<b>1226 ABH</b> - 03154600
<b>MUSIC II, GUITAR II HONORS A/B/H</b>	<b>1228 ABH</b> - 03154700
<b>MUSIC III, GUITAR III HONORS A/B/H</b>	<b>1230 ABH</b> - 03154800
<b>MUSIC IV, GUITAR IV HONORS A/B/H</b>	<b>1232 ABH</b> - 03154900
Provides advanced guitar students in the proper historical techniques and styles of the guitar. Emphasis is placed on individual and ensemble tone production, mastery of fundamentals, and music reading. The students are reinforced with skills needed for advanced techniques and styles for guitar. Students in this class must demonstrate a high level of commitment and superior citizenship to be successful. The students are required to prepare and audition for TMEA All-Region and all district sponsored events. Performances will be given during the semester at concerts, festivals, and contests. Placement based upon audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, PIANO IA/B</b>	<b>1234 AB</b> - 03154200
<b>MUSIC II, PIANO IIA/B</b>	<b>1236 AB</b> - 03154300
<b>MUSIC III, PIANO IIIA/B</b>	<b>1238 AB</b> - 03154400
<b>MUSIC IV, PIANO IVA/B</b>	<b>1240 AB</b> - 03154500
Provides students in the proper fundamentals and technique for piano. Emphasis is placed on individual tone production, fundamentals, technique and music reading. The students are reinforced with the proper repertoire, sequencing, fundamentals and technique for piano. Students in this class must demonstrate a high level of commitment and superior citizenship to be successful. Placement based upon audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, PIANO I HONORS A/B/H</b>	<b>1242 AB</b> - 03154200
<b>MUSIC II, PIANO II HONORS A/B/H</b>	<b>1244 AB</b> - 03154300
<b>MUSIC III, PIANO III HONORS A/B/H</b>	<b>1246 AB</b> - 03154400
<b>MUSIC IV, PIANO IV HONORS A/B/H</b>	<b>1248 AB</b> - 03154500
Provides students in the proper advanced fundamentals and technique for piano. Emphasis is placed on individual more sophisticated tone production, fundamentals, technique and music reading. The students are reinforced with the proper repertoire, the sequencing of fundamentals and improvement on the technique for piano. Students in this advanced class must demonstrate a high level of commitment and superior citizenship to be successful. Placement based upon audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, INSTRUMENTAL ENSEMBLE IA/B (BRASS, WOODWIND &amp; PERCUSSION I)</b>	<b>1250 AB</b> - 03151700
<b>MUSIC II, INSTRUMENTAL ENSEMBLE IIA/B (BRASS, WOODWIND, &amp; PERCUSSION II)</b>	<b>1252 AB</b> - 03151800
<b>MUSIC III, INSTRUMENTAL ENSEMBLE IIIA/B (BRASS, WOODWIND, &amp; PERCUSSION III)</b>	<b>1254 AB</b> - 03151900
<b>MUSIC IV, INSTRUMENTAL ENSEMBLE IVA/B (BRASS, WOODWIND, &amp; PERCUSSION IV)</b>	<b>1256 AB</b> - 03152000
Provides students in the proper techniques and styles of the brass, woodwind and percussion instruments. Emphasis is placed on individual and ensemble tone production, mastery of fundamentals, and music reading. The students are reinforced with general skills needed for proper tone, technique, vibrato, and idiomatic style for each instrument and ensemble. Students in this class must demonstrate a high level of commitment and superior citizenship to be successful. Performances will be given during the semester at concerts, festivals, and contests. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, INSTRUMENTAL ENSEMBLE (BRASS, WOODWIND, &amp; PERCUSSION I) HONORS IA/B/H</b>	<b>1258 ABH</b> - 03151700
<b>MUSIC II, INSTRUMENTAL ENSEMBLE (BRASS, WOODWIND, &amp; PERCUSSION II) HONORS IIA/B/H</b>	<b>1260 ABH</b> - 03151800
<b>MUSIC III, INSTRUMENTAL ENSEMBLE (BRASS, WOODWIND, &amp; PERCUSSION III) HONORS IIIA/B/H</b>	<b>1262 ABH</b> - 03151900
<b>MUSIC IV, INSTRUMENTAL ENSEMBLE (BRASS, WOODWIND, &amp; PERCUSSION IV) HONORS IVA/B/H</b>	<b>1264 ABH</b> - 03152000
Provides students in the proper advanced techniques and styles of the brass, woodwind and percussion instruments. Emphasis is placed on an artistic level for individual and ensemble tone production, mastery of advanced fundamentals and music reading. The students are reinforced with advanced and honor level skills needed for proper tone, technique, vibrato, and idiomatic style for each instrument and ensemble. Students in this class must demonstrate an advanced honor's level of commitment and superior citizenship to be successful. Performances will be given during the semester at concerts, festivals, and solo and ensemble contests. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, JAZZ ENSEMBLE I</b>	<b>1396 AB</b> - 03151300
<b>MUSIC II, JAZZ ENSEMBLE II</b>	<b>1397 AB</b> - 03151400
<b>MUSIC III, JAZZ ENSEMBLE III</b>	<b>1398 AB</b> - 03151500
<b>MUSIC IV, JAZZ ENSEMBLE IV</b>	<b>1399 AB</b> - 03151600
Offers instruction and practice for a group of selected musicians interested in the study and performance of modern jazz, rock, and popular music. Includes the study of improvisation and performance at various concerts and special	Grade level: 9 – 12 Credit(s): 1

events throughout the year. Attendance at all rehearsals and performances is required. Placement based on audition	College Hour(s): NA
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> Member of band, orchestra, or chorus; auditioned by instructor; must be enrolled in parent group; taken in sequence	
<b>MUSIC I, JAZZ ENSEMBLE I, HONORS I A/B/H</b>	<b>1371 ABH</b> - 03151300
<b>MUSIC II, JAZZ ENSEMBLE II, HONORS II A/B/H</b>	<b>1373 ABH</b> - 03151400
<b>MUSIC III, JAZZ ENSEMBLE III, HONORS III A/B/H</b>	<b>1375 ABH</b> - 03151500
<b>MUSIC IV, JAZZ ENSEMBLE IV, HONORS IV A/B/H</b>	<b>1377 ABH</b> - 03151600
Provides opportunities for a selected group of advanced jazz instrumentalist/vocalist to earn honors credit for study and performance of modern jazz, rock, and popular music. The student will need to attend two major jazz performances (one per semester), creating a writing critique of each. The student will need to demonstrate knowledge of different styles (swing, funk, Latin, etc.) and jazz scales. The student will be required to prepare and audition for TMEA All-Region Jazz Band. Includes the study of improvisation and performance at concerts and special events throughout the year. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Contact Content Director</i>	
<u>Prerequisites:</u> Member of band, orchestra, or chorus; auditioned by instructor; must be enrolled in parent group; taken in sequence	
<b>MUSIC I, ORCHESTRA AB (SUB NON-VARSITY)</b>	<b>1349 AB</b> - 03150500
<b>MUSIC II, ORCHESTRA AB (SUB NON-VARSITY)</b>	<b>1350 AB</b> - 03150600
<b>MUSIC III, ORCHESTRA AB (SUB NON-VARSITY)</b>	<b>1351 AB</b> - 03150700
<b>MUSIC IV, ORCHESTRA AB (SUB NON-VARSITY)</b>	<b>1352 AB</b> - 03150800
Provides instruction for sub non-varsity orchestra students to continue their development of characteristic tone quality, instrumental skills/techniques, music literacy, ear training, and fundamentals at the appropriate level. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, ORCHESTRA (NON-VARSITY) I AB</b>	<b>1353 AB</b> - 03150500
<b>MUSIC II, ORCHESTRA (NON-VARSITY) II AB</b>	<b>1354 AB</b> - 03150600
<b>MUSIC III, ORCHESTRA (NON-VARSITY) III AB</b>	<b>1355 AB</b> - 03150700
<b>MUSIC IV, ORCHESTRA (NON-VARSITY) IV AB</b>	<b>1356 AB</b> - 03150800
Provides instruction for non-varsity orchestra students to continue their development of characteristic tone quality, instrumental skills/techniques, music literacy, ear training, and fundamentals at the appropriate level. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1
<u>Instructional Material:</u> <i>Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> Placement based on audition; taken in sequence	<b>Tier III</b>
<b>MUSIC I, ORCHESTRA (NON-VARSITY) HONORS I A/B/H</b>	<b>1357 ABH</b> - 03150500
<b>MUSIC II, ORCHESTRA (NON-VARSITY) HONORS II A/B/H</b>	<b>1358 ABH</b> - 03150600
<b>MUSIC III, ORCHESTRA (NON-VARSITY) HONORS III A/B/H</b>	<b>1359 ABH</b> - 03150700
<b>MUSIC IV, ORCHESTRA (NON-VARSITY) HONORS IV A/B/H</b>	<b>1360 ABH</b> - 03150800
Non-varsity orchestra students will demonstrate independent musicianship, perform juried recitals and complete special projects (i.e. research projects, written critiques of professional and amateur performances) to earn honors credit. Students are required to prepare and audition for TMEA All-Region. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier II</b>
<u>Prerequisites:</u> Placement based on audition; taken in sequence	
<b>MUSIC I, ORCHESTRA (VARSITY) I AB</b>	<b>1410 AB</b> - 03150500
<b>MUSIC II, ORCHESTRA (VARSITY) II AB</b>	<b>1412 AB</b> - 03150600
<b>MUSIC III, ORCHESTRA (VARSITY) III AB</b>	<b>1414 AB</b> - 03150700
<b>MUSIC IV, ORCHESTRA (VARSITY) IV AB</b>	<b>1416 AB</b> - 03150800
Provides instruction for varsity orchestra students to continue their development of characteristic tone quality, instrumental skills/techniques, music literacy, ear training, and fundamentals at the appropriate level. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1
<u>Instructional Material:</u> <i>Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> Placement based on audition; taken in sequence	<b>Tier III</b>
<b>HONORS MUSIC I, ORCHESTRA (VARSITY) HONORS I A/B/H</b>	<b>1336 ABH</b> - 03150500
<b>HONORS MUSIC II, ORCHESTRA (VARSITY) HONORS II A/B/H</b>	<b>1337 ABH</b> - 03150600
<b>HONORS MUSIC III, ORCHESTRA (VARSITY) HONORS III A/B/H</b>	<b>1338 ABH</b> - 03150700
<b>HONORS MUSIC IV, ORCHESTRA (VARSITY) HONORS IV A/B/H</b>	<b>1339 ABH</b> - 03150800
Varsity orchestra students will demonstrate independent musicianship, performs juried recitals and complete special projects (i.e. research projects, written critiques of professional and amateur performances) to earn honors credit. Students are required to prepare and audition for TMEA All-Region. Attendance at all rehearsals and performances is required. Placement based on audition.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA

Instructional Material: *Contact Content Director*  
Prerequisites: Placement based on audition; taken in sequence

Tier II

## PERFORMING ARTS - DANCE AND THEATRE ARTS

### Principles of Dance

1500, 1503, 1505, 1507

### Dance & Media Communications

1517, 1519

### Theatre Arts

3731, 3733, 3735, 3773

### Technical Theatre

3751, 3754, 3757, 3759

### Theatre Production

3755, 3761, 3763, 3765

### Musical Theatre

1484, 1474, 1475, 1476

### Theatre & Media Communications

3736, 3738

Honors courses are also available. Some courses require a teacher recommendation and audition.

ATTENDANCE AT ALL PERFORMANCES IS REQUIRED.

Students must successfully complete both semesters (AB) to meet the state requirement for fine arts credit.

*Students can earn PE credit for Principles of Dance IIAB, Show Choir IIAB, Technical Theatre IIAB or Musical Theatre IIAB as a TEKS-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per week if it is not being used to satisfy another graduation requirement. The teacher does not have to be certified in PE. See Health & Physical Education section for correct course numbers.*

### DANCE, LEVEL I, PRINCIPLES OF DANCE I AB

**1500 AB** - 03830100

### DANCE, LEVEL II, PRINCIPLES OF DANCE II AB

**1503 AB** - 03830200

### DANCE, LEVEL III, PRINCIPLES OF DANCE III AB

**1505 AB** - 03830300

### DANCE, LEVEL IV, PRINCIPLES OF DANCE IV AB

**1507 AB** - 03830400

A primary and basic entry-level dance course for any high school student. Attendance at all rehearsals and performances is required.

Grade level: 9 – 12

*The student can earn PE credit for Dance II, Principles of Dance IIAB as a TEKS-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per week if it is not being used to satisfy another graduation requirement. The teacher does not have to be certified in PE. See Health & Physical Education section for course #.*

Credit(s): 1

Instructional Material: *Discovering Dance Teacher Web Resources; Human Kinetics, 9781492504740, Discovering Dance with Web Resource, Human Kinetics, 9781450468862*

College Hour(s): NA

Prerequisites: Teacher recommendation; taken in sequence

**Tier III**

What's Next? Dance II-IV

### HONORS DANCE, LEVEL I PRINCIPLES OF DANCE I ABH

**1511 ABH** - 03830100

### HONORS DANCE, LEVEL II, PRINCIPLES OF DANCE II ABH

**1513 ABH** - 03830200

### HONORS DANCE, LEVEL III, PRINCIPLES OF DANCE III ABH

**1515 ABH** - 03830300

### HONORS DANCE, LEVEL IV, PRINCIPLES OF DANCE IV ABH

**1509 ABH** - 03830400

Extends and builds on Dance I-IV as established by the TEKS. Focus may include choreography, musical theatre dance, auditions, and college preparation. Class activities and assessment projects are unique to this section, and will include one critique (paper) each semester. Attendance at all rehearsals and performances is required.

Grade level: 9 – 12

Credit(s): 1

Instructional Material: *No state-adopted textbook/Contact Content Director*

College Hour(s): NA

Prerequisites: Teacher recommendation; taken in sequence

**Tier II**

What's Next? Dance II-IV

### DANCE, LEVEL I, DANCE WELLNESS I AB

**1512 AB** - 03834100

### DANCE, LEVEL II, DANCE WELLNESS II AB

**1514 AB** - 03834200

### DANCE, LEVEL III, DANCE WELLNESS III AB

**1516 AB** - 03834300

### DANCE, LEVEL IV, DANCE WELLNESS IV AB

**1510 AB** - 03834400

Provides an opportunity for students to develop a comprehensive understanding of dancer wellness. Topics will include, but are not limited to, the mental components (imagery, rest, fatigue, and burnout) as well as the physical aspects (dancer nutrition, body composition, injury prevention, and first aid) of dancer wellness. Ultimately, students will design their own personal wellness plan that will help them get the most out of their dance practice. Attendance at all rehearsals and performances is required.

Grade level: 9 – 12

Credit(s): 1

College Hour(s): NA

**Tier III**

Instructional Material: *Dancer Wellness with Web Resource by Mary Virginia Wilmerding and Donna Krasnow*

Prerequisites: Teacher recommendation; taken in sequence

What's Next? Dance II-IV

*Course is only available at Arlington Heights, Diamond Hill-Jarvis, and I.M. Terrell Academy.*

<b>HONORS DANCE, LEVEL I, DANCE WELLNESS I ABH</b>	<b>1552 ABH</b> - 03834100
<b>HONORS DANCE, LEVEL II, DANCE WELLNESS II ABH</b>	<b>1554 ABH</b> - 03834200
<b>HONORS DANCE, LEVEL III, DANCE WELLNESS III ABH</b>	<b>1556 ABH</b> - 03834300
<b>HONORS DANCE, LEVEL IV, DANCE WELLNESS IV ABH</b>	<b>1558 ABH</b> - 03834400
Provides an opportunity for students to develop a comprehensive understanding of dancer wellness. Topics will include, but are not limited to, the mental components (imagery, rest, fatigue, and burnout) as well as the physical aspects (dancer nutrition, body composition, injury prevention, and first aid) of dancer wellness. Students will design their own personal wellness plan that will help them get the most out of their dance practice, as well as present it to a panel of dance educators/professionals for adjudication at the end of the year. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Dancer Wellness with Web Resource by Mary Virginia Wilmerding and Donna Krasnow</i>	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights, Diamond Hill-Jarvis, and I.M. Terrell Academy.</i>
<b>DANCE, LEVEL I, DANCE PRODUCTION I AB</b>	<b>1522 AB</b> - 03833700
<b>DANCE, LEVEL II, DANCE PRODUCTION II AB</b>	<b>1524 AB</b> - 03833800
<b>DANCE, LEVEL III, DANCE PRODUCTION III AB</b>	<b>1526 AB</b> - 03833900
<b>DANCE, LEVEL IV, DANCE PRODUCTION IV AB</b>	<b>1528 AB</b> - 03834000
Students will participate in a production class each day, focusing on stage management, lighting, sound, and various other production elements. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>Dance Production: Design and Technology by Jeremy Hopgood</i>	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights Diamond Hill-Jarvis, and I.M. Terrell Academy.</i>
<b>HONORS DANCE, LEVEL I, DANCE PRODUCTION I ABH</b>	<b>1553 ABH</b> - 03833700
<b>HONORS DANCE, LEVEL II, DANCE PRODUCTION II ABH</b>	<b>1555 ABH</b> - 03833800
<b>HONORS DANCE, LEVEL III, DANCE PRODUCTION III ABH</b>	<b>1557 ABH</b> - 03833900
<b>HONORS DANCE, LEVEL IV, DANCE PRODUCTION IV ABH</b>	<b>1559 ABH</b> - 03834000
Students will participate in a production class each day, focusing on stage management, lighting, sound, and various other production elements. Students must serve as tech crew/stage management for at least one production a semester (this can be for one act of a performance if they are also performing in the show). Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Dance Production: Design and Technology by Jeremy Hopgood</i>	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights Diamond Hill-Jarvis, and I.M. Terrell Academy.</i>
<b>DANCE, LEVEL I, DANCE HISTORY I AB</b>	<b>1530 AB</b> - 03834700
<b>DANCE, LEVEL II, DANCE HISTORY II AB</b>	<b>1531 AB</b> - 03834800
This course provides students with an interest in dance to expand their understanding of dance as both an art form and as a social and cultural artifact. It focuses on the dancers and choreographers, dances, and significant dance works from each time period. Students will analyze dance works from a variety of time periods. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>History of Dance by Gayle Kassing</i>	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence; upper level class for juniors and seniors	
<u>What's Next?</u> Taken in sequence	<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>
<b>HONORS DANCE, LEVEL I, DANCE HISTORY I ABH</b>	<b>1560 ABH</b> - 03834700
<b>HONORS DANCE, LEVEL II, DANCE HISTORY II ABH</b>	<b>1561 ABH</b> - 03834800
This course provides students with an interest in dance to expand their understanding of dance as both an art form and as a social and cultural artifact. It focuses on the dancers and choreographers, dances, and significant dance works from each time period. Students will analyze dance works from a variety of time periods. Students will produce a project given by their instructor to a panel of dance educators/professionals for adjudication at the end of the year. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>History of Dance by Gayle Kassing</i>	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence; upper level class for juniors and seniors	
<u>What's Next?</u> Taken in sequence	<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>
<b>DANCE, LEVEL I, DANCE COMPOSITION/IMPROVISATION I AB</b>	<b>1521 AB</b> - 03833300
<b>DANCE, LEVEL II, DANCE PERFORMANCE AND ENSEMBLE II AB</b>	<b>1523 AB</b> - 03833400
<b>DANCE, LEVEL III, DANCE PERFORMANCE AND ENSEMBLE III AB</b>	<b>1525 AB</b> - 03833500
<b>DANCE, LEVEL IV, DANCE PERFORMANCE AND ENSEMBLE IV AB</b>	<b>1527 AB</b> - 03833600
This dance course provides an opportunity for students with an interest in choreography and performance to experience what it is like to work and perform at a professional level. Students will participate in technique class each day; focusing on technique, artistry, alignment, and movement quality. Students in Performance/Ensemble will focus on learning repertory, performance, and rehearsal skills. Course recommended for dance officers, leaders, and	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA

potential dance majors for the purpose of providing instruction and opportunities for student choreography, student directing, and enhanced complexity in dance education. Attendance at all rehearsals and performances is required.	<b>Tier III</b>
<u>Instructional Material:</u> Dance Composition/Improvisation - <i>Choreography: A Basic Approach Using Improvisation</i> by Sandra Cerny Minton; Dance Performance & Ensemble - <i>No state-adopted textbook/Contact Content Director</i>	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV <i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>	
<b>HONORS DANCE, LEVEL I, DANCE COMPOSITION/IMPROVISATION I ABH</b>	<b>1562 ABH</b> - 03833300
<b>HONORS DANCE, LEVEL II, DANCE PERFORMANCE AND ENSEMBLE II ABH</b>	<b>1564 ABH</b> - 03833400
<b>HONORS DANCE, LEVEL III, DANCE PERFORMANCE AND ENSEMBLE III ABH</b>	<b>1566 ABH</b> - 03833500
<b>HONORS DANCE, LEVEL IV, DANCE PERFORMANCE AND ENSEMBLE IV ABH</b>	<b>1568 ABH</b> - 03833600
This dance course provides an opportunity for students with an interest in choreography and performance to experience what it is like to work and perform at a professional level. Students will focus on learning repertory, performance, and rehearsal skills. Students will be required to participate in at least one additional performance/production a year, a dance critique/critical analysis paper in the Fall as well as an end of the year presentation at the end of the Spring semester. Course recommended for dance officers, leaders, and potential dance majors for the purpose of providing instruction and opportunities for student choreography, student directing, and enhanced complexity in dance education. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Dance Composition/Improvisation - <i>Choreography: A Basic Approach Using Improvisation</i> by Sandra Cerny Minton; Dance Performance & Ensemble	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV <i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>	
<b>DANCE, LEVEL I, BALLET I AB</b>	<b>1532 AB</b> - 03830500
<b>DANCE, LEVEL II, BALLET II AB</b>	<b>1534 AB</b> - 03830600
<b>DANCE, LEVEL III, BALLET III AB</b>	<b>1536 AB</b> - 03830700
<b>DANCE, LEVEL IV, BALLET IV AB</b>	<b>1538 AB</b> - 03830800
This course provides an opportunity for students with an interest in ballet to be immersed in this codified dance technique. Students will participate in a traditional ballet class each day, focusing on technique, artistry, alignment, and movement quality. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Technical Manual and Dictionary of Classical Ballet</i> by Gail Grant	<b>Tier III</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV <i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>	
<b>HONORS DANCE, LEVEL I, BALLET I ABH</b>	<b>1563 ABH</b> - 03830500
<b>HONORS DANCE, LEVEL II, BALLET II ABH</b>	<b>1565 ABH</b> - 03830600
<b>HONORS DANCE, LEVEL III, BALLET III ABH</b>	<b>1567 ABH</b> - 03830700
<b>HONORS DANCE, LEVEL IV, BALLET IV ABH</b>	<b>1569 ABH</b> - 03830800
This course provides an opportunity for students with an interest in ballet to be immersed in this codified dance technique. Students will participate in a traditional ballet class each day, focusing on technique, artistry, alignment, and movement quality. Students will be required to perform in one production per semester. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> <i>Technical Manual and Dictionary of Classical Ballet</i> by Gail Grant	
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV <i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>	
<b>DANCE, LEVEL I, WORLD DANCE FORMS I AB</b>	<b>1533 AB</b> - 03832100
<b>DANCE, LEVEL II, WORLD DANCE FORMS II AB</b>	<b>1535 AB</b> - 03832200
<b>DANCE, LEVEL III, WORLD DANCE FORMS III AB</b>	<b>1537 AB</b> - 03832300
<b>DANCE, LEVEL IV, WORLD DANCE FORMS IV AB</b>	<b>1539 AB</b> - 03832400
This dance course provides an opportunity for students with an interest in world dance to be exposed to dances that are part of cultures, traditions, customs, and rituals from around the world. Students will participate in a movement-based class each day, focusing on technique, artistry, alignment, and movement quality. Recommended for campuses offering Ballet Folklorico. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>No state-adopted textbook/Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV <i>Course is only available at Arlington Heights, I.M. Terrell Academy and Diamond Hill-Jarvis.</i>	
<b>HONORS DANCE, LEVEL I, WORLD DANCE FORMS I ABH</b>	<b>1570 ABH</b> - 03832100
<b>HONORS DANCE, LEVEL II, WORLD DANCE FORMS II ABH</b>	<b>1572 ABH</b> - 03832200
<b>HONORS DANCE, LEVEL III, WORLD DANCE FORMS III ABH</b>	<b>1574 ABH</b> - 03832300
<b>HONORS DANCE, LEVEL IV, WORLD DANCE FORMS IV ABH</b>	<b>1576 ABH</b> - 03832400
This dance course provides an opportunity for students with an interest in world dance to be exposed to dances that are part of cultures, traditions, customs, and rituals from around the world. Students will participate in a movement-based class each day, focusing on technique, artistry, alignment, and movement quality. Recommended for campuses offering Ballet Folklorico. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA

<u>Instructional Material:</u> No state-adopted textbook/Contact Content Director	<b>Tier II</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	
<i>Course is only available at Arlington Heights, I.M. Terrell Academy and Diamond Hill-Jarvis.</i>	
<b>DANCE, LEVEL I, TAP I AB</b>	<b>1540 AB</b> - 03831700
<b>DANCE, LEVEL II, TAP II AB</b>	<b>1542 AB</b> - 03831800
<b>DANCE, LEVEL III, TAP III AB</b>	<b>1544 AB</b> - 03831900
<b>DANCE, LEVEL IV, TAP IV AB</b>	<b>1546 AB</b> - 03832000
This dance course provides an opportunity for students with an interest in Tap Dance to be immersed in this codified dance technique. Students will participate in a Tap technique class each day, focusing on technique, artistry, alignment, and movement quality. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1
<u>Instructional Material:</u> No state-adopted textbook/Contact Content Director	College Hour(s): NA
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	<b>Tier III</b>
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>
<b>HONORS DANCE, LEVEL I, TAP I ABH</b>	<b>1571 ABH</b> - 03831700
<b>HONORS DANCE, LEVEL II, TAP II ABH</b>	<b>1573 ABH</b> - 03831800
<b>HONORS DANCE, LEVEL III, TAP III ABH</b>	<b>1575 ABH</b> - 03831900
<b>HONORS DANCE, LEVEL IV, TAP IV ABH</b>	<b>1577 ABH</b> - 03832000
This dance course provides an opportunity for students with an interest in Tap Dance to be immersed in this codified dance technique. Students will participate in a Tap technique class each day, focusing on technique, artistry, alignment, and movement quality. Students will be required to perform in one production per semester. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> No state-adopted textbook/Contact Content Director	<b>Tier II</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>
<b>DANCE, LEVEL I, MODERN/CONTEMPORARY I AB</b>	<b>1541 AB</b> - 03830900
<b>DANCE, LEVEL II, MODERN/CONTEMPORARY II AB</b>	<b>1543 AB</b> - 03831000
<b>DANCE, LEVEL III, MODERN/CONTEMPORARY III AB</b>	<b>1545 AB</b> - 03831100
<b>DANCE, LEVEL IV, MODERN/CONTEMPORARY IV AB</b>	<b>1547 AB</b> - 03831200
This dance course provides an opportunity for students with an interest in modern dance to be immersed in this codified dance technique. Students will participate in a modern technique class each day, focusing on technique, artistry, alignment, and movement quality. Along with focusing on technique, students will work on choreographic skills and phrase work. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> No state-adopted textbook/Contact Content Director	<b>Tier III</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>
<b>HONORS DANCE, LEVEL I, MODERN/CONTEMPORARY I ABH</b>	<b>1578 ABH</b> - 03830900
<b>HONORS DANCE, LEVEL II, MODERN/CONTEMPORARY II ABH</b>	<b>1580 ABH</b> - 03831000
<b>HONORS DANCE, LEVEL III, MODERN/CONTEMPORARY III ABH</b>	<b>1582 ABH</b> - 03831100
<b>HONORS DANCE, LEVEL IV, MODERN/CONTEMPORARY IV ABH</b>	<b>1584 ABH</b> - 03831200
This dance course provides an opportunity for students with an interest in modern dance to be immersed in this codified dance technique. Students will participate in a modern technique class each day, focusing on technique, artistry, alignment, and movement quality. Along with focusing on technique, students will work on choreographic skills and phrase work. Students will be required to perform in one production per semester. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> No state-adopted textbook/Contact Content Director	<b>Tier II</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>
<b>ADVANCED STUDIES IN MODERN DANCE, LEVEL IV, MODERN/CONTEMPORARY IV AB</b>	<b>1588 AB</b>
In this collegiate level dance course, students will be immersed in a rigorous version of Modern Dance. Daily, students will be engaged in a codified Modern technique, artistry, alignment, and movement at the highest level. In addition, students will focus on choreographic skills, phrase work, and the anatomy of a dancer. Students will be required to perform in one production per semester, as well as required to have written, oral, and physical summative and formative assessments: demonstrating and showcasing mastery of the various codified Modern technique studies (Floor Work, Fortifications, Preludes, etc. are a few examples from various codified modern techniques). Attendance at all rehearsal, performance, and formative assessments are required.	03831200 Grade level: 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> No state-adopted textbook/Contact Content Director	<b>Tier I</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> NA	
<i>Course is only available at I.M. Terrell Academy.</i>	

<b>DANCE, LEVEL I, JAZZ I AB</b>	<b>1548 AB</b> - 03831300
<b>DANCE, LEVEL II, JAZZ II AB</b>	<b>1549 AB</b> - 03831400
<b>DANCE, LEVEL III, JAZZ III AB</b>	<b>1550 AB</b> - 03831500
<b>DANCE, LEVEL IV, JAZZ IV AB</b>	<b>1551 AB</b> - 03831600
This dance course provides an opportunity for students with an interest in Jazz Dance to be immersed in this codified dance technique. Students will participate in a Jazz technique class each day, focusing on technique, artistry, alignment, and movement quality. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1
<u>Instructional Material:</u> <i>No state-adopted textbook/Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	<b>Tier III</b>
<u>What's Next?</u> Dance II-IV	
<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>	
<b>HONORS DANCE, LEVEL I, JAZZ I ABH</b>	<b>1579 ABH</b> - 03831300
<b>HONORS DANCE, LEVEL II, JAZZ II ABH</b>	<b>1581 ABH</b> - 03831400
<b>HONORS DANCE, LEVEL III, JAZZ III ABH</b>	<b>1583 ABH</b> - 03831500
<b>HONORS DANCE, LEVEL IV, JAZZ IV ABH</b>	<b>1585 ABH</b> - 03831600
This dance course provides an opportunity for students with an interest in Jazz Dance to be immersed in this codified dance technique. Students will participate in a Jazz technique class each day, focusing on technique, artistry, alignment, and movement quality. Students will be required to perform in one production per semester. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>No state-adopted textbook/Contact Content Director</i>	<b>Tier II</b>
<u>Prerequisites:</u> Teacher recommendation; taken in sequence	
<u>What's Next?</u> Dance II-IV	
<i>Course is only available at Arlington Heights and I.M. Terrell Academy.</i>	
<b>DUAL CREDIT DANCE, LEVEL I PRINCIPLES OF DANCE I A</b>	<b>1501 A</b>
<b>TCC Course: Dance Appreciation (DANC 2303)</b>	03830100
Survey of primitive, classical, and contemporary dance and its interrelationship with cultural developments and other art forms.	ECHS Grade level: 9-12 Grade level: 9 - 12
<u>Instructional Material:</u> NA	Credit(s): 1
<u>FWISD Prerequisites:</u> Parental permission; taken in sequence	College Hour(s): 3
<u>What's Next?</u> N/A	<b>Tier I</b>
<i>Course taught by an approved District or adjunct instructor.</i>	
<b>DUAL CREDIT DANCE, LEVEL I PRINCIPLES OF DANCE I B</b>	<b>1501 B</b>
<b>TCC Course: Ballet I (DANC 1341)</b>	03830100
Instruction and participation in ballet technique.	ECHS Grade level: 9-12 Grade level: 9 - 12
<u>Instructional Material:</u> NA	Credit(s): 1
<u>FWISD Prerequisites:</u> Parental permission; taken in sequence	College Hour(s): 3
<u>What's Next?</u> N/A	<b>Tier I</b>
<i>Course taught by an approved District or adjunct instructor.</i>	
<b>DANCE I, DANCE AND MEDIA COMMUNICATIONS I AB</b>	<b>1517 AB</b> - 03834500
<b>DANCE II, DANCE AND MEDIA COMMUNICATIONS II AB</b>	<b>1519 AB</b> - 03834600
Builds on Dance I- IV AB TEKS and incorporates multi-media and production curriculum. Designed for the student who plans to study dance and or media productions/communications at the college and or career level. Emphasizes classical ballet and modern dance, while continuing the study of jazz, tap, and world dance with multi-media elements. Expands the students' experiences with choreography, musical theatre, dance, and media communications/productions. Focuses on auditioning, rehearsal, performance techniques and media communications/productions. Prepares students for auditions into college dance and or media production programs. Class activities and assessment projects are unique to this section including a dance program combined with instruction on media productions. Activities will include professional, world-of-work contexts including evaluating live performances, and producing and recording multimedia dance productions. Involves students in appropriate class/public performance activities and media productions. Students are expected to participate and produce at least one quality event/project at least every 6 weeks. Attendance at all rehearsals and performances is required.	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<u>Instructional Material:</u> <i>Experiencing Dance Teacher Web Resource 2nd Edition, Human Kinetics, 9781492504733: Experiencing Dance-2nd Edition-From Student to Dance Artist, Human Kinetics, 9781450421904</i>	
<u>Prerequisites:</u> Any Dance Course	
<u>What's Next?</u> Taken in sequence	
<i>Course is only available at Arlington Heights an I.M. Terrell Academy.</i>	
<b>HONORS DANCE I, DANCE AND MEDIA COMMUNICATIONS I ABH</b>	<b>1518 ABH</b> - 03834500
<b>HONORS DANCE II, DANCE AND MEDIA COMMUNICATIONS II ABH</b>	<b>1520 ABH</b> - 03834600
Extends and builds on Dance IV AB TEKS and incorporates multi-media and production curriculum. Designed for the student who plans to study dance and or media productions at the college and career level. Emphasizes classical ballet and modern dance, while continuing the study of jazz, tap, and world dance. Expands the students' experiences with choreography, musical theatre, dance, and media communications/productions. Focuses on auditioning, rehearsal, performance techniques and multi-media curriculum. Prepares students for auditions and entry into college and or career dance and media production/communication programs. Class activities and assessment projects are unique to this section including a mentoring program with professional dance company and	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>

media production experts. Activities will include professional and world-of-work contexts including evaluating live performances, and producing quality media arts productions. Involves students in appropriate class/public performance activities. Students will be involved with choreographing, directing dance concerts, as well as, producing quality media communications of Dance events. Requires successful completion of at least one special project per six weeks approved and monitored by the teacher. Students will also work with at least one off-campus dance and or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards. Attendance at all rehearsals and performances is required.

Instructional Material: *Experiencing Dance Teacher Web Resource 2nd Edition, Human Kinetics, 9781492504733: Experiencing Dance-2nd Edition-From Student to Dance Artist, Human Kinetics, 9781450421904*

Prerequisites: Any Dance Course

What's Next? Taken in sequence

*Course is only available at Arlington Heights and I.M. Terrell Academy.*

**FINE ARTS, LEVEL IV, VPA CAPSTONE AB**

**VPA1000 AB**

The aim of this course is to provide opportunity for students to explore college preparation and professional applications of their VPA craft. Advanced credit with college and career readiness focused assignments and special projects will be approved and monitored by the instructor. Students will document their four years of VPA work through the completion of their portfolio in the first semester. Students will receive opportunities to job shadow and/or participate in unpaid practicums, networking, preparation of interview and audition requirements, and be able to creatively advocate their art to peers and members of the arts community. Students will investigate careers in the arts, develop problem solving skills and apply their art to a service learning action project. Students will actively prepare their capstone project to be presented in the spring semester (recital, gallery exhibit, direction of play, or project).

84500XXX

Grade level: 12  
Credit(s): Local Credit  
College Hour(s): NA

Instructional Material: N/A

Prerequisites: Level I-III of a Fine Arts Content

What's Next? N/A

*This is for local credit only and only available at I.M. Terrell Academy for STEM & VPA.*

**THEATRE I, THEATRE ARTS I AB**

**3731 AB**

Introduces students to the basic concepts of acting technique, history of theatre, introduction to Technical Theatre, voice, diction, and articulation for the stage. Also covers basic costuming, make-up, careers in Theatre, and audience etiquette.

03250100

Grade level: 9 - 12

Instructional Material: *Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002*

Credit(s): 1  
College Hour(s): NA

Prerequisites: None

**Tier III**

What's Next? Theatre Arts II AB

**HONORS THEATRE I, THEATRE ARTS I ABH**

**3729 ABH**

Extends the Theatre I requirements into a rigorous in-depth focus. Students will develop a portfolio that will include an original short play for submission in a local contest, such as Circle Theatre Playwriting Contest, Stage West Playwriting Contest, etc.

03250100

Grade level: 9 - 12

Instructional Material: *Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002*

Credit(s): 1  
College Hour(s): NA

Prerequisites: None

**Tier II**

What's Next? Theatre Arts II AB

**DUAL CREDIT THEATRE I, THEATRE ARTS I A**

**3730 A**

**TCC Course: Introduction to Theatre (DRAM 1310)**

03250100

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in production may be required.

ECHS Grade level: 9-12

Grade level: 9 - 12

Instructional Material: NA

Credit(s): 1

FWISD & TCC Prerequisites: None

College Hour(s): 3

What's Next? N/A

**Tier I**

*Course taught by an approved District or adjunct instructor.*

**DUAL CREDIT THEATRE I, THEATRE ARTS I B**

**3730 B**

**TCC Course: Acting I (DRAM 1351)**

03250100

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination.

ECHS Grade level: 9-12

Grade level: 9 - 12

Instructional Material: NA

Credit(s): 0.5

FWISD & TCC Prerequisites: None

College Hour(s): 3

What's Next? N/A

**Tier I**

*Course taught by an approved District or adjunct instructor.*

**THEATRE II, THEATRE ARTS II AB**

**3733 AB**

Continues theatrical studies including molding individual creativity into cooperative group efforts. Provides for the development of playwriting, acting, and technical production skills such as auditioning, rehearsal, and performance techniques. Explores theatrical genres throughout history.

03250200



<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Theatre Arts I AB</p> <p><u>What's Next?</u> Theatre Arts III AB</p>	<p>Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS THEATRE II, THEATRE ARTS II ABH</b></p> <p>Extends the Theatre I requirements into a rigorous in-depth focus. Examines and evaluates theatrical genres for character/script analysis, technical design, directing, and historical and cultural influences on theatrical styles. Focuses on career opportunities in theatre, film, television, and other electronic media. Includes activities and assessment projects that involve conflict-based playwriting, effective voice training, construction and operation of technical elements, and creating appropriate in-class/public performances. Students will develop a portfolio that will include an original short play for submission in a local contest, such as Circle Theatre Playwriting Contest, Stage West Playwriting Contest, etc.</p>	<p><b>3745 ABH</b> 03250200</p> <p>Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Theatre Arts I AB</p> <p><u>What's Next?</u> Theatre Arts III AB</p>	
<p><b>THEATRE III, THEATRE ARTS III AB</b></p> <p>Advanced theatrical studies including the advanced development of playwriting, acting, and production skills such as auditioning, rehearsal, make-up, costuming and performance techniques.</p>	<p><b>3735 AB</b> 03250300</p> <p>Grade level: 11 - 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Theatre Arts II AB</p> <p><u>What's Next?</u> Theatre Arts IV AB</p>	
<p><b>HONORS THEATRE III, THEATRE ARTS III ABH</b></p> <p>Examines and evaluates theatrical genres for character/script analysis, technical design, directing, and historical and cultural influences on theatrical styles. Focuses on career opportunities in theatre, film, television, and other electronic media. Includes activities and assessment projects that involve conflict-based playwriting, effective voice training, construction and operation of technical elements, and creating appropriate in-class/public performances. Students will develop a portfolio that will include an original short play for submission in a local contest, such as Circle Theatre Playwriting Contest, Stage West Playwriting Contest, etc. Participation in one extra-curricular competition, performance, and/or production is required.</p>	<p><b>3747 ABH</b> 03250300</p> <p>Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Theatre Arts II AB</p> <p><u>What's Next?</u> Theatre Arts IV AB</p>	
<p><b>THEATRE IV, THEATRE ARTS IV AB</b></p> <p>Focuses on a variety of advanced theatrical production skills such as playwriting, script and character analysis for acting and technical purposes, evaluation of directors, actors, designers, and technician's production responsibilities and their effective execution. Examines career and vocational opportunities in theatre, film, television, and other electronic media.</p>	<p><b>3773 AB</b> 03250400</p> <p>Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Theatre Arts III AB</p>	
<p><b>HONORS THEATRE IV, THEATRE ARTS IV AB</b></p> <p>Students will provide an advanced demonstration of all Theatre aspects, such as character/script analysis, technical design, directing, and historical and cultural influences on theatrical styles. Students will focus on career opportunities in theatre, film, television, and other electronic media. Activities will include assessment projects that involve conflict-based playwriting, effective voice training, construction and operation of technical elements, and creating appropriate in-class/public performances. Participation in two extra-curricular competitions, performances, and/or productions is required.</p>	<p><b>3749 ABH</b> 03250400</p> <p>Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Theatre Arts III AB</p>	
<p><b>THEATRE I, THEATRE AND MEDIA COMMUNICATIONS I AB</b></p> <p>Precedes all other high school Theatre Arts courses. Students will learn how to bridge traditional stagecraft with current technology applications to create new media such as animation, digital images, multimedia presentation, digital video, websites, and interactive performances. Student work will culminate in a capstone project that investigates an issue relevant to the student and uses a digital stage to address a problem within the community or to effect a change. These projects (minimum of two) will afford students an opportunity to learn and practice</p>	<p><b>3736 AB</b> 03251300</p>

creative research skills, develop a narrative, engage an audience, and connect an online community to their projects. <u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i> <u>Prerequisites:</u> None <u>What's Next?</u> N/A <i>*Not available at all campuses</i>	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<b>HONORS THEATRE I, THEATRE AND MEDIA COMMUNICATIONS I ABH</b>	<b>3737 ABH</b>
Precedes all other high school Theatre Arts courses. Students will learn how to bridge traditional stagecraft with current technology applications to create new media such as animation, digital images, multimedia presentation, digital video, websites, and interactive performances. Student work will culminate in a capstone project that investigates an issue relevant to the student and uses a digital stage to address a problem within the community or to effect a change. These projects (minimum of two) will afford students an opportunity to learn and practice creative research skills, develop a narrative, engage an audience, and connect an online community to their projects. Students will also attend at least one off-campus theatre and or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards. <u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i> <u>Prerequisites:</u> None <u>What's Next?</u> N/A <i>*Not available at all campuses</i>	03251300  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>THEATRE II, THEATRE AND MEDIA COMMUNICATIONS II AB</b>	<b>3738 AB</b>
Students will practice stage movement techniques, develop skills to express thoughts and feelings, and learn how to analyze characters in scripts. Students will define roles in collaborative relationships (between playwright, director, actor, technician, audience); develop an understanding of the value and purpose of listening, observation, concentration, and emotional and sensory recall; demonstrate safe use of the body; and employ effective techniques, as well as be able to define creativity related to personal expression (voice thoughts and feelings). Students will create original scripts; operate technical elements; and perform roles such as actor, director, editor, designer, technician, etc. Historical and cultural influences will be used and portray different times, places, and cultures. Students will identify US contributions to the performing arts and the impact of theatre, film, television, and electronic media on contemporary society, as well as analyze and apply appropriate behavior during live performances. Their work will culminate in a capstone project that investigates an issue relevant to the student and uses a digital stage to address a problem within the community or to effect a change. These projects (minimum of two) will afford students an opportunity to learn and practice creative research skills, develop a narrative, engage an audience, and connect an online community to their projects. <u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i> <u>Prerequisites:</u> Theatre Arts and Media Communications I AB <u>What's Next?</u> N/A <i>*Not available at all campuses</i>	03251400  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>
<b>HONORS THEATRE II, THEATRE AND MEDIA COMMUNICATIONS II ABH</b>	<b>3739 ABH</b>
Students will bridge traditional stagecraft with current technology applications to create new media such as animation, digital images, multimedia presentation, digital video, websites, and interactive performances. Student work will culminate in a capstone project that investigates an issue relevant to the student and uses a digital stage to address a problem within the community or to effect a change. These projects (minimum of two) will afford students an opportunity to learn and practice creative research skills, develop a narrative, engage an audience, and connect an online community to their projects. Students will also attend at least one off-campus theatre and or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards. <u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i> <u>Prerequisites:</u> Honors Theatre Art and Media Communications I AB <u>What's Next?</u> N/A <i>*Not available at all campuses</i>	03251400  Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>TECHNICAL THEATRE I AB</b>	<b>3751 AB</b>
Studies the technical side of theatre by providing instruction in a laboratory setting in makeup, costuming, stage lighting, sound production, set design/construction, house management, and other technical areas needed for play production. <u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i> <u>Prerequisites:</u> N/A	03250500 Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b>

<u>What's Next?</u> Technical Theatre II AB	
<b>HONORS TECHNICAL THEATER I ABH</b>	<b>3752 ABH</b>
Offers a more intensive instruction in a laboratory and practical setting in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts productions. This course examines careers in theatre and other performing arts, as well as emphasizes studies and practical application of the technical side of theatre. This course requires successful completion of at least one classroom/public performance, writing activity, or technical project per semester approved and monitored by the teacher.	03250500
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Prerequisites:</u> N/A	<b>Tier II</b>
<u>What's Next?</u> Technical Theatre II AB	
<b>DUAL CREDIT TECHNICAL THEATER I AB</b>	<b>3750 AB</b>
<b>TCC Course: Stagecraft I (DRAM 1330)</b>	03250500
Study and application of the methods and components of theatrical production, which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management.	Grade level: 9 – 12 ECHS Grade level: 9-12 Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 3
<u>Prerequisites:</u> Technical Theatre I and Technical Theatre II	<b>Tier I</b>
<u>What's Next?</u> N/A	
<i>Course taught by an approved District or adjunct instructor.</i>	
<b>TECHNICAL THEATRE II AB</b>	<b>3754 AB</b>
Provides advanced instruction in a laboratory and practical setting in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts productions.	03250600
<i>The student can earn PE credit for Technical Theatre IIAB as a TEKS-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per week if it is not being used to satisfy another graduation requirement. The teacher does not have to be certified in PE. See Health &amp; Physical Education section for course #.</i>	
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA
<u>Prerequisites:</u> Technical Theatre I AB; taken in sequence	<b>Tier III</b>
<u>What's Next?</u> Technical Theatre III AB	
<b>HONORS TECHNICAL THEATER II ABH</b>	<b>3753 ABH</b>
Offers a more intensive instruction in a laboratory and practical setting in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts productions. Students will be expected to participate in all behind-the-scenes action of productions and their performances.	03250600
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA
<u>Prerequisites:</u> Technical Theatre I AB; taken in sequence	<b>Tier II</b>
<u>What's Next?</u> Technical Theatre III AB	
<b>DUAL CREDIT TECHNICAL THEATER II AB</b>	<b>3767 AB</b>
<b>TCC Course: Stagecraft II (DRAM 2331)</b>	03250600
Continued study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound and theatrical management. Topics will alternate with DRAM 1330.	Grade level: 9 – 12 ECHS Grade level: 9-12 Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 3
<u>Prerequisites:</u> Technical Theatre I and Technical Theatre II; and Dual Credit Technical Theatre I AB	<b>Tier II</b>
<u>What's Next?</u> N/A	<i>Course taught by an approved District or adjunct instructor.</i>
<b>TECHNICAL THEATRE III AB</b>	<b>3757 AB</b>
Provides advanced instruction in a laboratory and practical setting in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts productions. Students will be expected to participate in all behind-the-scenes action of productions.	03251100
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA
<u>Prerequisites:</u> Technical Theatre Level II AB	<b>Tier III</b>
<u>What's Next?</u> Technical Theatre IV AB	
<b>HONORS TECHNICAL THEATRE III ABH</b>	<b>3758 ABH</b>
Advanced instruction in a laboratory and practical setting in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts	03251100

productions. Students will be expected to participate in all behind-the-scenes action of productions and their performances.	Grade level: 11 - 12
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Credit(s): 1
<u>Prerequisites:</u> Technical Theatre II AB	College Hour(s): NA
<u>What's Next?</u> Technical Theatre IV AB	<b>Tier II</b>
<b>TECHNICAL THEATRE IV AB</b>	<b>3759 AB</b>
Provides advanced instruction in a laboratory and practical setting in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts productions. Students will be expected to participate in all behind-the-scenes action of productions.	03251200
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12
<u>Prerequisites:</u> Technical Theatre III AB	Credit(s): 1
<u>What's Next?</u> N/A	College Hour(s): NA
<b>HONORS TECHNICAL THEATRE IV ABH</b>	<b>3760 ABH</b>
Advanced instruction in makeup, costuming design, set design and construction, lighting and sound design, house management, and other technical areas needed for theatrical and performing arts productions. Students will be expected to participate in all behind-the-scenes action of productions and their performances.	03251200
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12
<u>Prerequisites:</u> Technical Theatre III AB	Credit(s): 1
<u>What's Next?</u> N/A	College Hour(s): NA
<b>FINE ARTS, LEVEL IV, VPA CAPSTONE AB</b>	<b>VPA1000 AB</b>
The aim of this course is to provide opportunity for students to explore college preparation and professional applications of their VPA craft. Advanced credit with college and career readiness focused assignments and special projects will be approved and monitored by the instructor. Students will document their four years of VPA work through the completion of their portfolio in the first semester. Students will receive opportunities to job shadow and/or participate in unpaid practicums, networking, preparation of interview and audition requirements, and be able to creatively advocate their art to peers and members of the arts community. Students will investigate careers in the arts, develop problem solving skills and apply their art to a service learning action project. Students will actively prepare their capstone project to be presented in the spring semester (recital, gallery exhibit, direction of play, or project).	84500XXX
<u>Instructional Material:</u> N/A	Grade level: 12
<u>Prerequisites:</u> Level I-III of a Fine Arts Content	Credit(s): Local Credit
<u>What's Next?</u> N/A	College Hour(s): NA
<i>This is for local credit only and only available at I.M. Terrell Academy for STEM &amp; VPA.</i>	
<b>THEATRE PRODUCTION I AB</b>	<b>3755 AB</b>
Practical hands-on experience in acting and stagecraft through the preparation and public performance of plays. Participation in public performance is required (one per semester).	03250700
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Theatre Arts I AB and Teacher Recommendation	Credit(s): 0.5
<u>What's Next?</u> Theatre Production II AB	College Hour(s): NA
<b>HONORS THEATRE PRODUCTION I ABH</b>	<b>3756 ABH</b>
Practical hands-on experience in acting and stagecraft through the preparation and public performance of plays. Students are required to participate in all productions on their campus as either a performer or technician. Students will be required to read plays and/or see a determined number of local productions.	03250700
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Theatre Arts I AB and Teacher Recommendation	Credit(s): 0.5
<u>What's Next?</u> Theatre Production II AB	College Hour(s): NA
<b>THEATRE PRODUCTION II AB</b>	<b>3761 AB</b>
Advanced hands-on experience in acting and stagecraft through the preparation and public performance of plays. Participation in public performance is required (one per semester).	03250800
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 10 – 12
<u>Prerequisites:</u> Theatre Production I AB and Teacher Recommendation	Credit(s): 0.5-1.0
<u>What's Next?</u> Theatre Production III AB	College Hour(s): NA
	<b>Tier III</b>

<b>HONORS THEATRE PRODUCTION II ABH</b>	<b>3762 ABH</b>
Practical hands-on experience in acting and stagecraft through the preparation and public performance of plays. Students are required to participate in all productions on their campus either as a performer or technician. Students will also attend at least one off-campus theatre and/or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards.	03250800
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 10 – 12 Credit(s): 0.5-1.0 College Hour(s): NA
<u>Prerequisites:</u> Theatre Production I AB and Teacher Recommendation	<b>Tier II</b>
<u>What's Next?</u> Theatre Production III AB	
<b>THEATRE PRODUCTION III AB</b>	<b>3763 AB</b>
Advanced hands-on experience in acting and stagecraft through the preparation and public performance of plays. Participation in public performance is required (one per semester).	03250900
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12 Credit(s): 0.5-1.0 College Hour(s): NA
<u>Prerequisites:</u> Theatre Production II AB and Teacher Recommendation	<b>Tier III</b>
<u>What's Next?</u> Theatre Production IV AB	
<b>HONORS THEATRE PRODUCTION III ABH</b>	<b>3764 ABH</b>
Hands-on experience in acting and stagecraft through the preparation and public performance of plays. Students are required to participate in all productions on their campus either as a performer or technician. Students will also attend at least one off-campus theatre and/or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards.	03250900
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12 Credit(s): 0.5-1.0 College Hour(s): NA
<u>Prerequisites:</u> Theatre Productions II AB and Teacher Recommendation	<b>Tier II</b>
<u>What's Next?</u> Theatre Production IV AB	
<b>THEATRE PRODUCTION IV AB</b>	<b>3765 AB</b>
Advanced hands-on experience in acting and stagecraft through the preparation and public performance of plays. Participation in public performance is required (one per semester).	03251000
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12 Credit(s): 0.5-1.0 College Hour(s): NA
<u>Prerequisites:</u> Theatre Production III AB and Teacher Recommendation	<b>Tier III</b>
<u>What's Next?</u> N/A	
<b>HONORS THEATRE PRODUCTION IV ABH</b>	<b>3766 ABH</b>
Hands-on experience in acting and stagecraft through the preparation and public performance of plays. Students are required to participate in all productions on their campus either as a performer or technician. Students will also attend at least one off-campus theatre and/or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards.	03251000
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 11 – 12 Credit(s): 0.5-1.0 College Hour(s): NA
<u>Prerequisites:</u> Theatre Production III AB and Teacher Recommendation	<b>Tier II</b>
<u>What's Next?</u> N/A	
<b>MUSICAL THEATRE I AB</b>	<b>1484 AB</b>
Musical Theatre will expose students to a wide range of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of musical theatre. Participation in public performance is required (one per semester).	03251900
<u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i>	Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Prerequisites:</u> 9th Grade Students: Must have one year of 8th grade choir, theatre, or dance and audition/instructor approval. 10 <sup>th</sup> - 12th Grade Students: Must have one year of high school choir, theatre, or dance; audition/instructor approval.	<b>Tier III</b>
<u>What's Next?</u> Musical Theatre II AB	
<b>HONORS MUSICAL THEATRE I ABH</b>	<b>1485 ABH</b>
Musical Theatre will expose students to a wide range of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of musical theatre. Students are required to participate in all productions on their campus either as a performer or technician.	03251900
	Grade level: 9 - 12 Credit(s): 1

<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> 9th Grade Students: Must have one year of 8th grade choir, theatre, or dance and audition/instructor approval. 10<sup>th</sup> - 12th Grade Students: Must have one year of high school choir, theatre, or dance; audition/instructor approval.</p> <p><u>What's Next?</u> Musical Theatre II AB</p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>MUSICAL THEATRE II AB</b></p> <p>Musical Theatre will expose students to a wide range of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. Participation in public performance is required (one per semester).</p> <p><i>The student can earn PE credit for Musical Theatre IIAB as a TEKS-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per week if it is not being used to satisfy another graduation requirement. The teacher does not have to be certified in PE. See Health &amp; Physical Education section for course #.</i></p>	<p><b>1474 AB</b> 03252000 Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Musical Theatre I AB and audition</p> <p><u>What's Next?</u> Musical Theatre III AB</p>	
<p><b>HONORS MUSICAL THEATRE II ABH</b></p> <p>Continued development of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. Students are required to participate in all productions on their campus either as a performer or technician. Students will also attend at least one off-campus theatre and/or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards.</p>	<p><b>1486 ABH</b> 03252000 Grade level: 10 – 12 Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Musical Theatre I AB and audition</p> <p><u>What's Next?</u> Musical Theatre III AB</p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>MUSICAL THEATRE III AB</b></p> <p>Continued development to a wide range of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. Participation in public performance is required (one per semester).</p>	<p><b>1475 AB</b> 03252100 Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Musical Theatre II AB and audition</p> <p><u>What's Next?</u> Musical Theatre IV AB</p>	
<p><b>HONORS MUSICAL THEATRE III ABH</b></p> <p>Continued development of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. Students are required to participate in all productions on their campus either as a performer or technician. Students will also attend at least one off-campus theatre and/or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards.</p>	<p><b>1487 ABH</b> 03252100 Grade level: 11 – 12 Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Musical Theatre II and audition</p> <p><u>What's Next?</u> Musical Theatre IV AB</p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>MUSICAL THEATRE IV AB</b></p> <p>Continued development to a wide range of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. Participation in public performance is required (one per semester).</p>	<p><b>1476 AB</b> 03252200 Grade level: 11 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Musical Theatre III AB and audition</p>	
<p><b>HONORS MUSICAL THEATRE IV ABH</b></p> <p>Continued development of on-stage performance disciplines, including acting, performance, vocal performance, and dance performance. Students are required to participate in all productions on their campus as either a performer or technician. Students will also attend at least one off-campus theatre and/or media production per semester. Students will also create and produce a portfolio appropriate for college and career standards.</p>	<p><b>1488 ABH</b> 03252200 Grade level: 11 – 12 Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Drama for Reading and Performance Perfection Learning ISBN: 9781680644050; Stages of History Perfection Learning ISBN: 9780789163325; Creative Communication Perfection Learning ISBN: 97809310544002</i></p> <p><u>Prerequisites:</u> Musical Theatre III AB and audition</p>	<p>College Hour(s): NA <b>Tier II</b></p>

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# ***WORLD LANGUAGES***

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# WORLD LANGUAGES GRADUATION REQUIREMENTS

ALL STUDENTS ARE REQUIRED to take 2 Credits of the SAME Language

## FOUNDATION PLANS

All Plans require students to earn two credits in any two levels of the same language: Students may select to take any two levels in the same language or two credits in computer programming languages selected from Computer Science I, II, III, AP Computer Principles, and AP Computer Science A.

If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, the student may substitute another appropriate course as follows:

- Special Topics in Language and Culture
- Another credit from a different language
- Computer programming languages

*The determination regarding a student's ability to complete the second credit of LOTE must be agreed on by:*

- The teacher of the first LOTE course, the principal or designee, and the student's parent
- The ARD or 504 committee, if applicable

A student, who due to a disability, is unable to complete 2 credits in the same LOTE, may substitute a combination of 2 credits from ELA, math, science or social studies or 2 credits in CTE or Technology Applications for the LOTE requirement. (Cannot combine a credit from the ELA, math, science, and social studies areas with a credit from the CTE / technology applications area.) The determination regarding the student's ability to complete the LOTE requirement will be made by the ARD or 504 committee, as applicable.

**Students now have the opportunity to:**

- Earn a **performance acknowledgement** in bilingualism and biliteracy. Students must demonstrate proficiency in **two or more languages** through completion of a **minimum of 3 credits** in the same language other than English with a minimum GPA of the equivalent of 80 on a scale of 100;
- Meet the admissions requirements of many state, national, public, and private universities which include a **minimum of 3 years** of study of a language other than English.

**All students, therefore, are strongly encouraged** to study **a minimum of 3 years** of a LOTE.

**Possible Endorsement Opportunities:**

- Arts & Humanities

For specific Endorsement Requirements, see the FOUNDATION PROGRAM section of Bulletin 100.

**A student who successfully completes a dual language immersion/two-way or dual language immersion/one-way program at an elementary school may satisfy one credit of the two credits required in a language other than English.**

**To successfully complete a dual language immersion program, a student must:**

1. Have participated in a dual language immersion program for at least five consecutive school years;
2. Achieve high levels of academic competence, as demonstrated by performance of meets or masters grade level on the STAAR in English or Spanish, as applicable; and
3. Achieve proficiency in both English and a language other than English as demonstrated by scores of proficient or higher in reading and speaking domains on language proficiency achievement tests in both languages.

**The second credit of a language other than English must be in the same language as the successfully completed dual language immersion program. TEC §28.0051 and TAC §74.12(b)(5)(F)**



# World Languages Frequently Asked Questions (FAQs)

## LOTE (Languages Other Than English)

- 1. Can a student combine different levels from different languages to meet the LOTE requirement to graduate on the foundation high school program? \***

Two levels of the **same** language are required for graduation on the Foundation High School Program (unless an appropriate course substitution has been approved). Students may also meet the LOTE requirement by earning two credits in computer programming languages selected from Computer Science I, II, and III, AP Computer Science A, AP Computer Science Principles, IB Computer Science Standard Level, and IB Computer Science Higher Level.

- 2. What options do we have for a junior/senior who has recently enrolled in our district and does not have any credits for LOTE or has taken a language that our district does not offer?\***

Juniors/Seniors who have language experience in a language our district does not offer may take a credit-by-exam or national language proficiency test approved by the district (see Director of World Languages). Although there is no exemption for world language credit, FWISD offers the option of enrolling in a district-approved web-based program as well as summer school.

- 3. Can a student be enrolled in two different levels of the same language at the same time?**

Any LOTE course that requires a prerequisite course as listed in Bulletin 100 must be taken in sequence. For example, a student may not be enrolled in a Level I and Level II LOTE course at the same time.

- 4. What options does a student have if they fail a LOTE course?**

A student who fails a LOTE course can recover the credit by re-taking the course, enrolling in a district-approved web-based program, taking a credit-by-exam, or through summer school.

- 5. A student failed Level 1A of a language, but passed Level 1B. Do they have to re-take 1A before they can be enrolled in 2A?**

Students who failed Level 1A but who passed Level 1B with an 80 or above may be enrolled in Level 2A.

- 6. What is the process for the Spanish placement test?**

A counselor or language teacher may refer a student to the World Language Department Chair on campus for placement testing. The district placement test team member will conduct the placement test, score it, and share results with the Director of World Languages and the placement test team. The department chair or placement test team member is responsible for providing the counselor with the documentation for the recommended course in a timely manner.

*\*These LOTE FAQs and more can be found on TEA's site at:*

<https://tea.texas.gov/academics/subject-areas/languages-other-than-english>

# World Languages

<p><b>SPECIAL TOPICS IN LANGUAGE AND CULTURE AB</b></p> <p>Students gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity.</p> <p>This course cannot be considered a part of the coherent sequence of languages other than English (LOTE) courses required for any endorsement. This course will not count as a level II LOTE course. Students who desire to continue with LOTE study will need to take level II or higher LOTE courses. This course may be substituted for a level II LOTE course upon approval by the student's level I LOTE classroom teacher, the principal or designee, and the student's parent who determine that the student is not likely to be successful in a level II LOTE course.</p> <p><u>Instructional Material:</u> <i>Contact Content Director</i></p> <p><u>Prerequisites:</u> Any Level I LOTE Course</p>	<p><b>4065 AB</b></p> <p>11410000</p> <p>Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>AMERICAN SIGN LANGUAGE I AB</b></p> <p>Introduces communication skills in American Sign Language, including both receptive and expressive signing, as well as interactive communication. Explores History of the language and the culture of deaf people.</p> <p><u>Instructional Material:</u> <i>Signing Naturally Level I - Dawn Sign Press Media, Units 1-6 ISBN: 9781581212105 &amp; Units 7-12 ISBN: 9781581212211</i></p> <p><u>Prerequisites:</u> Taken in sequence</p> <p><u>What's Next?</u> American Sign Language II AB</p>	<p><b>4402 AB</b></p> <p>03980100</p> <p>Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>DUAL CREDIT AMERICAN SIGN LANGUAGE I AB</b></p> <p><b>TCC Course: American Sign Language (SGNL 1401)</b></p> <p>An introduction to the basic skills in production and comprehension of American Sign Language (ASL). Includes the manual Alphabet and numbers. Develops conversational abilities, culturally appropriate behaviors, and exposes students to ASL grammar.</p> <p><u>Instructional Material:</u> NA</p> <p><u>Prerequisites:</u> Taken in sequence</p> <p><u>What's Next?</u> SGNL 1402</p> <p style="text-align: center;"><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4414 AB</b></p> <p>03980100</p> <p>Grade level: HS: 11-12 ECHS: 9-12 Credit(s): 1 College Hour(s): 4 hours <b>Tier I</b></p>
<p><b>AMERICAN SIGN LANGUAGE II AB</b></p> <p>The communication skills acquired in Level I are extended to include distinguishing between variations in signs and non-manual communication. More in-depth study of deaf culture will be explored. Students will be provided opportunities to express and receive signed information in a variety of situations.</p> <p><u>Instructional Material:</u> <i>Signing Naturally Level II. Dawn Sign Press Media, ISBN: 9781581211313</i></p> <p><u>Prerequisites:</u> American Sign Language I; taken in sequence</p> <p><u>What's Next?</u> American Sign Language III AB or Honors American Sign Language III AB</p>	<p><b>4404 AB</b></p> <p>03980200</p> <p>Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS AMERICAN SIGN LANGUAGE II AB</b></p> <p>The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i></p> <p><u>Instructional Material:</u> <i>Signing Naturally Level II. Dawn Sign Press Media, ISBN: 9781581211313</i></p> <p><u>Prerequisites:</u> American Sign Language I; taken in sequence</p> <p><u>What's Next?</u> American Sign Language III AB or Honors American Sign Language III AB</p>	<p><b>4405 AB</b></p> <p>03980200</p> <p>Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>DUAL CREDIT AMERICAN SIGN LANGUAGE II AB</b></p> <p><b>TCC Course: American Sign Language (SGNL 1402)</b></p> <p>Develops receptive and expressive ability and allows recognition and demonstration of more sophisticated grammatical features of American Sign Language (ASL). Increases fluency and accuracy in finger spelling and numbers. Encourages opportunities for interaction with the deaf community. Taken with SLNG 1215.</p> <p><u>Instructional Material:</u> NA</p> <p><u>FWISD Prerequisites:</u> SGNL1401</p> <p><u>What's Next?</u> SGNL 2301</p> <p style="text-align: center;"><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4416 AB</b></p> <p>03980200</p> <p>Grade level: HS: 11-12 ECHS: 9-12 Credit(s): 1 College Hour(s): 4 hours <b>Tier I</b></p>
<p><b>DUAL CREDIT CONVERSATIONAL SIGN LANGUAGE IN THE WORKPLACE AB</b></p> <p><b>TCC Course: Conversational Sign Language in the Workplace (SLNG 1202)</b></p> <p>Development of basic conversational skills through practice designed to improve communication with clients/co-workers who are deaf.</p> <p><u>Instructional Material:</u> <i>Per TCC</i></p> <p><u>FWISD Prerequisites:</u> SGNL 1401 &amp; SGNL 1402</p> <p><u>What's Next?</u> NA</p> <p>Offered only at WLI</p>	<p><b>4422 AB</b></p> <p>84600XXX</p> <p>Grade level: HS: 11-12 ECHS: 9-12 Credit(s): 0.5 College Hour(s): 2 hours <b>Tier I</b></p>

<p><b>HONORS AMERICAN SIGN LANGUAGE III AB</b></p> <p>Focuses on increasing manual and non-manual communication, while extending the study of both receptive and expressive signing. Emphasizes the acquisition of skills of creative self-expression in both sign and non-manual communication, and understanding of deaf culture. Includes direction of regional variations in signs and idioms used in given conversation. Additional independent research and service projects are required of Honors class students.</p> <p><i>Instructional Material:</i> <i>Signing Naturally Level III. Dawn Sign Press Media, ISBN: 9781581211351</i></p> <p><i>Prerequisites:</i> American Sign Language II; taken in sequence, student interest</p> <p><i>What's Next?</i> Honors American Sign Language IV AB</p>	<p><b>4408 AB</b></p> <p>03980300</p> <p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT VISUAL &amp; GESTURAL COMMUNICATION T</b></p> <p><b>TCC Course: American Sign Language (SLGN 1215)</b></p> <p>Development of skills in non-verbal communication. Emphasizes the use and understanding of facial expression, gestures, pantomime, and body language.</p> <p><i>Instructional Material:</i> NA</p> <p><i>FWISD Prerequisites:</i> SGNL 1402</p> <p><i>What's Next?</i> SGNL 2301</p> <p><i>Course taught by an approved adjunct instructor.</i></p> <p>Offered only at WLI</p>	<p><b>9003 T</b></p> <p>84600XXX</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p> <p>Credit(s): 1</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT DEAF CULTURE AB</b></p> <p><b>TCC Course: Deaf Culture (SLNG 1347)</b></p> <p>Historical and contemporary perspective of American Deaf culture using a sociocultural model. Includes cultural identity and awareness, values, group norms, communication, language, and significant contributions made by deaf people to the world.</p> <p><i>Instructional Material:</i> <i>Per TCC</i></p> <p><i>FWISD Prerequisites:</i> SGNL 2301 &amp; SLNG 1215</p> <p><i>What's Next?</i> NA</p> <p>Offered only at WLI</p>	<p><b>4424 AB</b></p> <p>84600XXX</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 3 hours</p> <p>Tier I</p>
<p><b>DUAL CREDIT AMERICAN SIGN LANGUAGE III AB</b></p> <p><b>TCC Course: American Sign Language (SGNL 2301)</b></p> <p>The first semester covers Visual and Gestural Communication. Integrates and refines expressive and receptive skills in American Sign Language (ASL), including recognition of sociolinguistic variation. A practiced oriented approach to language acquisition.</p> <p><i>Instructional Material:</i> NA</p> <p><i>FWISD Prerequisites:</i> SGNL 1402 &amp; SLNG 1215</p> <p><i>What's Next?</i> NA</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4418 AB</b></p> <p>03980300</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p> <p>WLI: 10-12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>HONORS AMERICAN SIGN LANGUAGE IV AB</b></p> <p>The focus is on manual and non-manual communication, while extending the study of both receptive and expressive signing. Other skills emphasized include creative self-expression in both signs and non-manual communication, and understanding of deaf culture. Encourages participation in connected discourse in straightforward situations, as well as fostering cultural and linguistic accuracy in communication. Additional independent research and service projects are required of Honors class students.</p> <p><i>Instructional Material:</i> <i>Signing Naturally Level III. Dawn Sign Press Media, ISBN: 9781581211351</i></p> <p><i>Prerequisites:</i> Honors American Sign Language III, student interest</p> <p><i>What's Next?</i> NA</p> <p><i>Course taught by locally certified gifted teacher.</i></p>	<p><b>4412 AB</b></p> <p>03980400</p> <p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT AMERICAN SIGN LANGUAGE IV AB</b></p> <p><b>TCC Course: American Sign Language (SGNL 2302)</b></p> <p>Integration of expressive and receptive skills in American Sign Language (ASL) with emphasis on grammar, linguistics, literature, and discourse styles at an intermediate level. Provides students with information linguistic and cultural variations.</p> <p><i>Instructional Material:</i> NA</p> <p><i>FWISD Prerequisites:</i> SGNL 2301</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4420 AB</b></p> <p>03980400</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p> <p>Credit(s): 0.5</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT OTHER FOREIGN LANGUAGES LEVEL 1 AB</b></p> <p><b>TCC Course: Beginning American Sign Language (SGNL 1401)</b></p> <p>Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign language study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community. At the high school level, students shall be awarded one credit for successful completion of this course.</p> <p><i>Instructional Material:</i> TBD</p> <p><i>TCC Prerequisites:</i> None</p> <p><i>What's Next?</i> SGNL 1402</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4351 AB</b></p> <p>03993200</p> <p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>

<b>DUAL CREDIT OTHER FOREIGN LANGUAGES LEVEL 2 AB</b>	<b>4353 AB</b>
<b>TCC Course: Beginning American Sign Language (SGNL 1402)</b>	
Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign language study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community. At the high school level, students shall be awarded one credit for successful completion of this course.	03993300 Grade level: 9 - 12 Credit(s): 1 College Hour(s): 4 hours <b>Tier I</b>
<u>Instructional Material:</u> TBD <u>TCC Prerequisites:</u> SGNL1401 <u>What's Next?</u> SGNL 2301 <i>Course taught by an approved adjunct instructor.</i>	
<b>DUAL CREDIT OTHER FOREIGN LANGUAGES LEVEL 3 AB</b>	<b>4355 AB</b>
<b>TCC Course: Intermediate American Sign Language I (SGNL 2301)</b>	
Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign language study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community. At the high school level, students shall be awarded one credit for successful completion of this course.	03993400 Grade level: 9 - 12 Credit(s): 1 College Hours(s): 3 hours <b>Tier I</b>
<u>Instructional Material:</u> TBD <u>TCC Prerequisites:</u> SGNL 1401 and SGNL 1402 <u>What's Next?</u> NA <i>Course taught by an approved adjunct instructor.</i>	
<b>CHINESE I AB</b>	<b>4356 AB</b>
Offers everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness in Mandarin Chinese culture and of the importance of accuracy expression. This course may also be broadcasted by the FWISD; students in all high schools have the opportunity to participate.	03490100 Grade level: 9 – 12 Credit(s): 1
<u>Instructional Material:</u> 1614- <i>Zhēn Bàng! Level I, EMC Publishing ISBN: 9781533815200</i> <u>Prerequisites:</u> Taken in sequence <u>What's Next?</u> Chinese II AB	College Hour(s): NA <b>Tier III</b>
<b>CHINESE II AB</b>	<b>4358 AB</b>
Expands oral and written skills into more challenging constructions, increased proficiency with the Chinese character system, increased reading comprehension and a variety of cultural experiences in the Chinese speaking world. Offers practice in Pinyin (Chinese pronunciation code), understanding and producing sentence-length utterances, and brief, connected texts using recombination's of learned material. Promotes recognition of the role of culture and language components in communication.	03490200 Grade level: 9 – 12 Credit(s): 1
<u>Instructional Material:</u> 1615- <i>Zhēn Bàng! Level II, EMC Publishing ISBN: 9781533815217</i> <u>Prerequisites:</u> Chinese I; taken in sequence <u>What's Next?</u> Honors Chinese III AB	College Hour(s): NA <b>Tier III</b>
<b>HONORS CHINESE II AB</b>	<b>4359 AB</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>	03490200 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> 1615- <i>Zhēn Bàng! Level II, EMC Publishing ISBN: 9781533815217</i> <u>Prerequisites:</u> Chinese I; taken in sequence <u>What's Next?</u> Honors Chinese III AB <i>Course taught by locally certified gifted teacher or AP trained teacher</i>	
<b>HONORS CHINESE III AB</b>	<b>4362 AB</b>
Emphasizes creative self-expression in spoken language. Expands aural comprehension to improve guessing from context. Includes short passages from both adapted and authentic literature, in the reading practice and some creative writing. Promotes increased knowledge of the Chinese culture and components of the language.	03490300 Grade level: 9 - 12 Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> 1616- <i>Zhēn Bàng! Level III, EMC Publishing, ISBN 9781533815224</i> <u>Prerequisites:</u> Chinese II, taken in sequence <u>What's Next?</u> AP Chinese Language and culture AB or Honors Chinese IV AB <i>Course taught by locally certified gifted teacher or AP trained teacher</i>	
<b>HONORS CHINESE IV AB</b>	<b>4367 AB</b>
Affords an opportunity for students to carry on connected discourse in straightforward situations, to produce oral presentations and written reports on a variety of topics, and interpret text from various genres and subject areas. Fosters cultural and linguistic accuracy in communication.	03490400 Grade level: 10 - 12

<p><u>Instructional Material:</u> <i>No state adopted materials/ Contact Content Director</i></p> <p><u>Prerequisites:</u> Honors Chinese III, taken in sequence</p> <p><u>What's Next?</u> Chinese V AB</p> <p><i>Course taught by locally certified gifted teacher.</i></p>	<p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>AP CHINESE LANGUAGE AND CULTURE IV AB</b></p> <p>AP Chinese Language and Culture covers material corresponding to an intermediate-level college course in Chinese. Students cultivate their understanding of Chinese language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.</p> <p><u>Instructional Material:</u> <i>No state adopted materials/ Contact Content Director</i></p> <p><u>Prerequisites:</u> Honors Chinese III, taken in sequence</p> <p><u>What's Next?</u> Honors Chinese V</p> <p><i>Course taught by an AP trained teacher.</i></p>	<p><b>4364 AB</b></p> <p>A3490400</p> <p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>HONORS CHINESE V ABH</b></p> <p>Affords an opportunity for students to carry on connected discourse in straightforward situations, to produce oral presentations and written reports on a variety of topics, and interpret text from various genres and subject areas. Fosters cultural and linguistic accuracy in communication.</p> <p><u>Instructional Material:</u> <i>No state adopted materials/ Contact Content Director</i></p> <p><u>Prerequisites:</u> AP Chinese Language and Cultural</p> <p><u>What's Next?</u> NA</p> <p><i>Course taught by locally certified gifted teacher.</i></p>	<p><b>4369 AB</b></p> <p>03490500</p> <p>Grade level: 10 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>FRENCH I AB</b></p> <p>Offers everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of the variety of French-Speaking cultures and of the importance of accuracy of expression.</p> <p><u>Instructional Material:</u> <i>1603- Bien Dit! 1 Houghton, Mifflin, Harcourt, ISBN: 9781328682628</i></p> <p><u>Prerequisites:</u> Taken in sequence</p> <p><u>What's Next?</u> French II AB</p>	<p><b>4131 AB</b></p> <p>03410100</p> <p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>DUAL CREDIT FRENCH I AB</b></p> <p><b>TCC Course: Beginning French I (FREN 1411)</b></p> <p>Fundamental skills in listening comprehension, speaking, reading, and writing. Includes acquisition of language functions, basic vocabulary, grammatical structures, and culture through contextualized presentations, interactive activities, and extensive laboratory practice.</p> <p><u>Instructional Material:</u> <i>NA</i></p> <p><u>FWISD Prerequisites:</u> Taken in sequence</p> <p><u>What's Next?</u> FREN 1412</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4127 AB</b></p> <p>03410100</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p> <p>Credit(s): 1</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>FRENCH II AB</b></p> <p>Expands oral and written skills into more challenging constructions, increased reading comprehension, and a variety of cultural experiences in the French-speaking world. Offers practice in understanding and producing sentence-length utterances and brief, connected texts using re-combinations of learned material. Promotes recognition of the role of culture and language components in communication.</p> <p><u>Instructional Material:</u> <i>1604 - Bien Dit! II Houghton, Mifflin, Harcourt, ISBN: 9781328682635</i></p> <p><u>Prerequisites:</u> French I, taken in sequence</p> <p><u>What's Next?</u> Honors French III AB</p>	<p><b>4133 AB</b></p> <p>03410200</p> <p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS FRENCH II AB</b></p> <p>The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i></p> <p><u>Instructional Material:</u> <i>1604 - Bien Dit! II Houghton, Mifflin, Harcourt, ISBN: 9781328682635</i></p> <p><u>Prerequisites:</u> French I, taken in sequence</p> <p><u>What's Next?</u> Honors French III AB</p>	<p><b>4134 AB</b></p> <p>03410200</p> <p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT FRENCH II AB</b></p> <p><b>TCC Course: Beginning French II (FREN 1412)</b></p> <p>Continuation of FREN-1411 with emphasis on conversation. Laboratory practice. This is a regular college-level French course in which dual credit will be awarded for college French and high school French II.</p> <p><u>Instructional Material:</u> <i>NA</i></p> <p><u>FWISD &amp; TCC Prerequisites:</u> FREN 1411</p> <p><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4129 AB</b></p> <p>03410200</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p> <p>Credit(s): 1</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>

<b>HONORS FRENCH III AB</b>	<b>4137 AB</b>
Emphasizes creative self-expression in the spoken language. Expands aural comprehension to improve guessing from context. Includes short passages of literature in the reading practice and some creative writing. Promotes increased knowledge of the French culture and components of the language	03410300
<u>Instructional Material:</u> <i>1605 - Bien Dit! III Houghton, Mifflin, Harcourt, ISBN: 9781942400349</i>	Grade level: 9 – 12
<u>Prerequisites:</u> French II; novice-high proficiency in speaking; intermediate-low proficiency in listening, reading and writing, student interest; taken in sequence	Credit(s): 1
<u>What's Next?</u> AP French Language and Culture or Honors French IV AB	College Hour(s): NA
<u>Course taught by locally certified gifted or AP trained teacher</u>	<b>Tier II</b>
<b>HONORS FRENCH IV ABH</b>	<b>4332 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment	03410400
<u>Instructional Material:</u> <i>1606 – APprensos, French IV Wayside Publishing, ISBN: 9781938026911</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Honors French III	Credit(s): 1
<u>What's Next?</u> 4141 – AP French Language and Culture; or 4143 Honors French V	College Hour(s): NA
<u>Course taught by locally certified gifted teacher.</u>	<b>Tier II</b>
<b>AP FRENCH LANGUAGE AND CULTURE AB</b>	<b>4141 AB</b>
AP French Language and Culture covers material corresponding to an intermediate-level college course in French. Students cultivate their understanding of French language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.	A3410100
<u>Instructional Material:</u> <i>1606 – APprensos, French IV Wayside Publishing, ISBN: 9781938026911</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Honors French III	Credit(s): 1
<u>What's Next?</u> Honors French V AB	College Hour(s): NA
	<b>Tier I</b>
<b>HONORS FRENCH V AB</b>	<b>4143 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment	03410500
<u>Instructional Material:</u> <i>1606 –Contact Content Director</i>	Grade level: 9 - 12
<u>Prerequisites:</u> AP French, Language & Culture	Credit(s): 1
<u>What's Next?</u> Honors French VI AB	College Hour(s): NA
	<b>Tier I</b>
<b>HONORS FRENCH VI AB</b>	<b>4145 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment	03410600
<u>Instructional Material:</u> <i>1606 – Contact Content Director</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Honors French V; taken in sequence	Credit(s): 1
<u>What's Next?</u> N/A	College Hour(s): NA
	<b>Tier I</b>
<b>GERMAN I AB</b>	<b>4191 AB</b>
Offers everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of German culture and of the importance of accuracy of expression	03420100
<u>Instructional Material:</u> <i>1670 - Portfolio Deutsch Level I, Klett-USA; ISBN: 9783126000024</i>	Grade level: HS: 9-12
<u>Prerequisites:</u> Taken in sequence	Credit(s): 1
<u>What's Next?</u> German II AB	College Hour(s): NA
	<b>Tier III</b>
<b>DUAL CREDIT GERMAN I AB</b>	<b>4187 AB</b>
<b>TCC Course: Beginning German I (GERM 1411)</b>	
Fundamental skills in listening comprehension, speaking, reading, and writing. Includes acquisition of language functions, basic vocabulary, grammatical structures, and culture through contextualized presentations, interactive activities, and extensive laboratory practice.	03420100
<u>Instructional Material:</u> NA	Grade level: HS: 11-12
<u>Prerequisites:</u> Taken in sequence	ECHS: 9-12
<u>What's Next?</u> GERM 1412	Credit(s): 1
<i>Course taught by an approved adjunct instructor.</i>	College Hour(s): 4 hours
	<b>Tier I</b>
<b>GERMAN II AB</b>	<b>4193 AB</b>
Expands oral and written skills into more challenging constructions, increased reading comprehension, and a variety of cultural experiences in the German-speaking world. Offers practice in understanding and producing sentence-length utterances and brief, connected texts using recombination's of learned material. Promotes recognition of the role of culture and language components in communication	03420200
	Grade level: 9 – 12
	Credit(s): 1

<u>Instructional Material:</u> 1671 - <i>Portfolio Deutsch Level II, Klett-USA; ISBN: 9783126000130</i>	College Hour(s): NA
<u>Prerequisites:</u> German I; taken in sequence	<b>Tier III</b>
<u>What's Next?</u> Honors German III AB	
<b>HONORS GERMAN II AB</b>	<b>4194 AB</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>	03420200
	Grade level: 9 – 12
	Credit(s): 1
	College Hour(s): NA
<u>Instructional Material:</u> 1671 - <i>Portfolio Deutsch Level II, Klett-USA; ISBN: 9783126000130</i>	<b>Tier II</b>
<u>Prerequisites:</u> German I; taken in sequence	
<u>What's Next?</u> Honors German III AB	
<b>DUAL CREDIT GERMAN II AB</b>	<b>4189 AB</b>
<b>TCC Course: Beginning German II (GERM 1412)</b>	03420200
Continuation of GERM 1411 with emphasis on conversation.	Grade level: HS: 11-12
	ECHS: 9-12
<u>Instructional Material:</u> NA	Credit(s): 1
<u>FWISD &amp; TCC Prerequisites:</u> GERM-1411	College Hour(s): 4 hours
<u>Course taught by an approved adjunct instructor.</u>	<b>Tier I</b>
<b>HONORS GERMAN III AB</b>	<b>4197 AB</b>
Emphasizes creative self-expression in the spoken language. Expands aural comprehension to improve guessing from context. Includes short passages of literature for reading practice and some creative writing. Promotes increased knowledge of the German culture and components of the language	03420300
	Grade level: 9 – 12
<u>Instructional Material:</u> 1672 - <i>Portfolio Deutsch Level III, Klett-USA; ISBN: 97831260000208</i>	Credit(s): 1
<u>Prerequisites:</u> German II; novice-high proficiency in speaking; intermediate-low proficiency in listening, reading, and writing; student interest; taken in sequence	College Hour(s): NA
<u>What's Next?</u> Honors German IV AB or AP German Language and Culture IV AB	<b>Tier II</b>
<b>HONORS GERMAN IV AB</b>	<b>4338 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment	03420400
	Grade level: 9 – 12
	Credit(s): 1
<u>Instructional Material:</u> <i>Portfolio Deutsch Level IV, Klett-USA; ISBN: 9783126000260</i>	College Hour(s): NA
<u>Prerequisites:</u> Honors German III	<b>Tier II</b>
<u>What's Next?</u> AP German Language and Culture V AB	
<b>AP GERMAN LANGUAGE AND CULTURE AB</b>	<b>4201 AB</b>
AP German Language and Culture covers material corresponding to an intermediate-level college course in German. Students cultivate their understanding of German language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.	A3420100
	Grade level: 9 – 12
	Credit(s): 1
<u>Instructional Material:</u> <i>Portfolio Deutsch Level IV, Klett-USA; ISBN: 9783126000260</i>	College Hour(s): NA
<u>Prerequisites:</u> Honors German III	<b>Tier I</b>
<u>What's Next?</u> Honors German V AB	
<b>HONORS GERMAN V AB</b>	<b>4203 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment	03420500
	Grade level: 9 – 12
	Credit(s): 1
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Deutschen Gramatick, 2nd Edition, Houghton Mifflin/Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> AP German Language & Culture	<b>Tier I</b>
<u>What's Next?</u> NA	
<b>HONORS GERMAN VI AB</b>	<b>4205 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of German for future careers and personal enrichment	03420600
	Grade level: 9 – 12
	Credit(s): 1
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Deutschen Gramatick, 2nd Edition, Houghton Mifflin/Contact Content Director</i>	College Hour(s): NA
<u>Prerequisites:</u> AP German Language and Culture; taken in sequence	<b>Tier I</b>

<b>ITALIAN I AB</b>	<b>4244 AB</b>
Offers everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of Italian culture and of the importance of accuracy of expression	03400100
<u>Instructional Material:</u> <i>Chiarissimo I - Wayside Publishing; ISBN: 9781942400370</i>	Grade level: 9 – 12
<u>Prerequisites:</u> N/A	Credit(s): 1
<u>What's Next?</u> Italian II AB	College Hour(s): NA
<b>ITALIAN II AB</b>	<b>4250 AB</b>
Expands oral and written skills into more challenging constructions, increased reading comprehension, and a variety of cultural experiences in the Italian-speaking world. Offers practice in understanding and producing sentence-length utterances and brief, connected texts using re-combinations of learned material. Promotes recognition of the role of culture and language components in communication	03400200
<u>Instructional Material:</u> <i>Chiarissimo II - Wayside Publishing; ISBN: 9781942400394</i>	Grade level: 10 – 12
<u>Prerequisites:</u> Italian I, taken in sequence	Credit(s): 1
<u>What's Next?</u> Honors Italian III AB	College Hour(s): NA
<b>HONORS ITALIAN II AB</b>	<b>4251 AB</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>	03400200
<u>Instructional Material:</u> <i>Chiarissimo II - Wayside Publishing; ISBN: 9781942400394</i>	Grade level: 10 – 12
<u>Prerequisites:</u> Italian I, taken in sequence	Credit(s): 1
<u>What's Next?</u> Honors Italian III AB	College Hour(s): NA
<b>HONORS ITALIAN III AB</b>	<b>4252 AB</b>
Emphasizes creative self-expression in the spoken and written language. Reinforces previously learned materials. Develops spoken, written, and listening skills. Enhances cultural awareness through reading of major literary works and study of art, history, music, and geography	03400300
<u>Instructional Material:</u> <i>Sentieri - Vista Higher Learning. ISBN: 9781626808058</i>	Grade level: 11 – 12
<u>Prerequisites:</u> Italian II; novice-high proficiency in speaking; intermediate-low proficiency in listening, reading, and writing; student interest; taken in sequence	Credit(s): 1
<u>What's Next?</u> Honors Italian IV AB or AP Italian Language and Culture AB	College Hour(s): NA
<b>HONORS ITALIAN IV ABH</b>	<b>4255 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment	03400400
<u>Instructional Material:</u> <i>Immagina - Vista Higher Learning; ISBN: 978-1-62680-905-5</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Honors Italian III; student interest; taken in sequence	Credit(s): 1
<u>What's Next?</u> NA	College Hour(s): NA
<b>AP ITALIAN LANGUAGE AND CULTURE AB</b>	<b>4256 AB</b>
AP Italian Language and Culture covers material corresponding to an intermediate-level college course in Italian. Students cultivate their understanding of Italian language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.	A3400400
<u>Instructional Material:</u> <i>Immagina - Vista Higher Learning; ISBN: 978-1-62680-905-5</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Honors Italian III; student interest; taken in sequence	Credit(s): 1
	College Hour(s): NA
<b>JAPANESE I AB</b>	<b>4280 AB</b>
Offers everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Foster's awareness of Japanese culture and of the importance of accuracy of expression.	03120100
<u>Instructional Material:</u> <i>1622 – Genki, Level I, Cheng &amp; Tsui, Co. Inc., ISBN: 9784789014403</i>	Grade level: 9 - 12
<u>Prerequisites:</u> Taken in sequence	Credit(s): 1
<u>What's Next?</u> Japanese II AB	College Hour(s): NA
<b>JAPANESE II AB</b>	<b>4282 AB</b>
Expands oral and written skills into more challenging constructions, increased reading comprehension, and a variety of cultural experiences. Offers practice in understanding and producing sentence-length utterances and brief, connected texts using recombination's of learned material. Promotes recognition of the role of culture and language components in communication. This course is also broadcast by the FWISD; students in all high schools have the opportunity to participate	03120200
<u>Instructional Material:</u> <i>1623 – Genki, Level II, Cheng &amp; Tsui, Co. Inc., ISBN: 9784789014434</i>	Grade level: 9 – 12
<u>Prerequisites:</u> Japanese I; taken in sequence	Credit(s): 1
<u>What's Next?</u> Honors Japanese III AB	College Hour(s): NA



<b>HONORS JAPANESE II AB</b>	<b>4283 AB</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>	03120200 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> 1623 — <i>Genki, Level II, Cheng &amp; Tsui, Co. Inc., ISBN: 9784789014434</i>	<b>Tier II</b>
<u>Prerequisites:</u> Japanese I; taken in sequence	
<u>What's Next?</u> Honors Japanese III AB	
<b>HONORS JAPANESE III AB</b>	<b>4288 AB</b>
Emphasizes creative self-expression in the spoken language. Expands aural comprehension to improve guessing from context. Includes short passages of literature adapted from Kanji in the reading practice and some creative writing. Promotes increased knowledge of the Japanese culture and components of the language	03120300 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> 1624 — <i>Tobira, Level III Gateway to Advanced Japanese, Cheng &amp; Tsui, Co. Inc., ISBN: 9784874244470</i>	<b>Tier II</b>
<u>Prerequisites:</u> Japanese II; demonstrated proficiency at the intermediate-low level in speaking and writing and the intermediate-mid level in listening and reading; student interest	
<u>What's Next?</u> AP Japanese Language & Culture	
<b>HONORS JAPANESE IV A</b>	<b>4289 A</b>
Emphasizes creative self-expression in the spoken language. Offers practice in understanding and producing oral and written passages on a variety of topics. Prepares students to increase level of proficiency in the Japanese language across the three communicative modes: (Interpersonal, Interpretive, and Presentational) and the via goal areas of the national and state standards: (Communication, Cultures, Connections, Comparisons, and Communities). Authentic sources support acquisition of both linguistic and cultural skills. Course fosters accuracy of expression and cultural behavior and the use of Japanese for future careers and personal enrichment.	03120400 Grade level: 10 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Tobira: Level IV Power Up Your Kanji, Cheng &amp; Tsui, Co. Inc., ISBN: 9784874244876</i>	<b>Tier II</b>
<u>Prerequisites:</u> Honors Japanese III, taken in sequence	
<u>What's Next?</u> JAPNB/H 4289B	
<b>AP JAPANESE LANGUAGE AND CULTURE AB</b>	<b>4286 AB</b>
AP Japanese Language and Culture covers material corresponding to an intermediate-level college course in Japanese. Students cultivate their understanding of Japanese language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.	A3120400 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Tobira: Level IV Power Up Your Kanji, Cheng &amp; Tsui, Co. Inc., ISBN: 9784874244876</i>	<b>Tier I</b>
<u>Prerequisites:</u> Honors Japanese III, taken in sequence	
<u>What's Next?</u> NA	
<b>LATIN I AB</b>	<b>4211 AB</b>
Introduces the reading of Latin, reinforced by listening, speaking, and writing. Fosters awareness of Roman culture and of components of the language	03430100 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> 1625 - <i>Elevate Level I, Unit I &amp; Unit II Cambridge University Press, ISBN: 9781316646199</i>	<b>Tier III</b>
<u>Prerequisites:</u> Taken in sequence	
<u>What's Next?</u> Latin II AB	
<b>LATIN II AB</b>	<b>4213 AB</b>
Builds skills in reading comprehension, complemented by listening, speaking, and writing practice. Promotes recognition of the role of Roman culture and language components in communication	03430200 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> 1625 - <i>Elevate Level II, Unit III Cambridge University Press ISBN: 97813166462290</i>	<b>Tier III</b>
<u>Prerequisites:</u> Latin I; taken in sequence	
<u>What's Next?</u> Honors Latin III AB	
<b>HONORS LATIN II AB</b>	<b>4214 AB</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>	03430200 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> 1625 - <i>Elevate Level II, Unit III Cambridge University Press ISBN: 97813166462290</i>	<b>Tier II</b>
<u>Prerequisites:</u> Latin I; taken in sequence	
<u>What's Next?</u> Honors Latin III AB	
<b>HONORS LATIN III AB</b>	<b>4215 AB</b>
Promotes the understanding of adapted and short unadapted literary passages. Uses listening, speaking, and writing skills to enhance reading. Applies knowledge of the culture and language components	03430300 Grade level: 9 – 12 Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> 1627 — <i>Elevate Level III, Unit VI Cambridge University Press ISBN: 9781316646236</i>	<b>Tier II</b>
<u>Prerequisites:</u> Latin II; taken in sequence; student interest	
<u>What's Next?</u> AP Latin IV AB	

<p><b>AP LATIN IV AB</b></p> <p>AP Latin is equivalent to an intermediate level college course in Latin focusing on the in-depth study of selections from two of the greatest works in Latin literature: Vergil's <i>Aeneid</i> and Caesar's <i>Gallic War</i>. Students cultivate their understanding of classics through preparing and translating readings and considering themes in the context of ancient literature as they explore concepts like literary techniques, Roman values, war and empire, leadership, views of non-Romans, history and memory, and human beings and the gods.</p> <p><u>Instructional Material:</u> <i>Vergil's Aeneid</i>. Bolchazy-Carducci Publishers ISBN: 9780865167650 &amp; Caesar ISBN: 9780865167780</p> <p><u>Prerequisites:</u> Honors Latin III; taken in sequence</p> <p><u>What's Next?</u> NA</p>	<p><b>4221 AB</b></p> <p>A3430100</p> <p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>HONORS LATIN V AB</b></p> <p>Affords an opportunity for students to analyze and interpret selections of prose and poetry from a variety of sources and periods. Fosters the use of Latin for future careers and personal enrichment</p> <p><u>Instructional Material:</u> <i>Latin of New Spain</i>. Bolchazy-Carducci Publishers; ISBN: 9780865168053</p> <p><u>Prerequisites:</u> AP Latin Vergil AB; taken in sequence</p> <p><u>What's Next?</u> NA</p>	<p><b>4223 AB</b></p> <p>03430500</p> <p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>HONORS LATIN VI AB</b></p> <p>Affords an opportunity for students to analyze and interpret selections of prose and poetry from a variety of sources and periods. Fosters the use of Latin for future careers and personal enrichment. Prepares students for AP Latin examination</p> <p><u>Instructional Material:</u> <i>Not state adopted/ Contact Content Director</i></p> <p><u>Prerequisites:</u> Honors Latin V</p> <p><u>What's Next?</u> NA</p>	<p><b>4225 AB</b></p> <p>03430600</p> <p>Grade level: 11 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier I</b></p>
<p><b>SPANISH I AB</b></p> <p>Offers everyday conversational patterns in culturally authentic situations and introduces reading and writing. Offers practice in using learned material to carry on very simple conversations and to read and write familiar material. Fosters awareness of Spanish culture and of the importance of accuracy of expression</p> <p><u>Instructional Material:</u> <i>1645 - Texas Auténtico I</i>, Pearson Education, Inc.; ISBN: 9780328905461</p> <p><u>Prerequisites:</u> Taken in sequence</p> <p><u>What's Next?</u> Spanish II AB</p>	<p><b>4071 AB</b></p> <p>03440100</p> <p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>DUAL CREDIT SPANISH I AB</b></p> <p><b>TCC Course: Beginning Spanish I (SPAN 1411)</b></p> <p><b>TWU Course: Spanish 1 (SPN 1341)</b></p> <p>Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. Includes acquisition of language functions, basic vocabulary, and culture through contextualized presentations, interactive activities, and extensive laboratory practice.</p> <p><u>Instructional Material:</u> NA</p> <p><u>FWISD Prerequisites:</u> Taken in sequence</p> <p><u>TWU Prerequisites:</u> Only offered at Dunbar</p> <p><u>What's Next?</u> TCC SPAN 1412</p> <p style="text-align: right;"><i>Course taught by an approved adjunct instructor.</i></p>	<p><b>4067 AB</b></p> <p>03440100</p> <p>Grade level: ECHS: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): 4 hours</p> <p><b>Tier I</b></p>
<p><b>SPANISH II AB</b></p> <p>Expands oral and written skills into more challenging constructions, increased reading comprehension, and a variety of cultural experiences in the Spanish-speaking world. Offers practice in understanding and producing sentence-length utterances and brief, connected texts using recombination's of learned material. Promotes recognition of the role of culture and language components in communication</p> <p><u>Instructional Material:</u> <i>1646 - Texas Auténtico II</i>, Pearson Education, Inc.; ISBN: 032890547X</p> <p><u>Prerequisites:</u> Spanish I; taken in sequence</p> <p><u>What's Next?</u> Honors Spanish III AB</p>	<p><b>4073 AB</b></p> <p>03440200</p> <p>Grade level: 9 - 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS SPANISH II AB</b></p> <p>The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i></p> <p><u>Instructional Material:</u> <i>1646 - Texas Auténtico II</i>, Pearson Education, Inc.; ISBN: 032890547X</p> <p><u>Prerequisites:</u> Spanish I; taken in sequence</p> <p><u>What's Next?</u> Honors Spanish III AB</p>	<p><b>4072 AB</b></p> <p>03440200</p> <p>Grade level: 9 – 12</p> <p>Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT SPANISH II AB</b></p> <p><b>TCC Course: Beginning Spanish II (SPAN 1412)</b></p> <p><b>TWU Course: Spanish 2 (SPN1342)</b></p> <p>Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at a high beginner to low intermediate level. Emphasis on conversation.</p>	<p><b>4069 AB</b></p> <p>03440200</p> <p>Grade level: HS: 11-12</p> <p>ECHS: 9-12</p>

<p><u>Instructional Material:</u> NA  <u>FWISD &amp; TCC Prerequisites:</u> SPAN-1411  <u>TWU Prerequisites:</u> SPN 1341; Only offered at Dunbar  <u>What's Next?</u> TCC SPAN 2311  <i>Course taught by an approved adjunct instructor.</i></p>	<p>Credit(s): 1  College Hour(s): 4 hours  <b>Tier I</b></p>
<p><b>HONORS SPANISH III AB</b></p>	<p><b>4077 AB</b></p>
<p>Emphasizes creative self-expression in the spoken language. Expands aural comprehension to improve guessing from context. Includes short passages of literature in the reading practice and some creative writing. Promotes increased knowledge of the Spanish culture and components of the language</p>	<p>03440300</p>
<p><u>Instructional Material:</u> 1647 - <i>Texas Auténtico III, Pearson Education, Inc.; ISBN: 9780328905539</i>  <u>Prerequisites:</u> Spanish II; novice-high proficiency in speaking; intermediate-low proficiency in listening, reading, and writing; student interest; taken in sequence  <u>What's Next?</u> Honors Spanish IV AB or AP Spanish Language AB</p>	<p>Grade level: 9 – 12  Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>DUAL CREDIT SPANISH III A</b>  <b>TCC Course: Intermediate Spanish I (SPAN 2311)</b></p>	<p><b>4078 A</b></p>
<p>The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Conversational practice based on selected readings and dialogues. Directed composition. Class conducted largely in Spanish.</p>	<p>03440300  Grade level: HS: 11-12  ECHS: 9-12  Credit(s): 0.5</p>
<p><u>Instructional Material:</u> NA  <u>FWISD &amp; TCC Prerequisites:</u> SPAN-1412  <u>What's Next?</u> SPAN 2312  <i>Course taught by an approved adjunct instructor.</i></p>	<p>College Hour(s): 3 hours  <b>Tier I</b></p>
<p><b>DUAL CREDIT SPANISH III B</b>  <b>TCC Course: Intermediate Spanish II (SPAN 2312)</b></p>	<p><b>4078 B</b></p>
<p>Continuation of SPAN 2311</p>	<p>03440300  Grade level: HS: 11-12  ECHS: 9-12</p>
<p><u>Instructional Material:</u> NA  <u>FWISD &amp; TCC Prerequisites:</u> SPAN-2311  <i>Course taught by an approved adjunct instructor.</i></p>	<p>Credit(s): 0.5  College Hour(s): 3 hours  <b>Tier I</b></p>
<p><b>HONORS SPANISH IV ABH</b></p>	<p><b>4326 AB</b></p>
<p>Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of French for future careers and personal enrichment</p>	<p>03440400  Grade level: 9 – 12  Credit(s): 1</p>
<p><u>Instructional Material:</u> 1650 – <i>Triángulo Aprobado IV, Wayside Publishing, Inc.; ISBN: 9781938026621</i>  <u>Prerequisites:</u> Honors Spanish III, taken in sequence  <u>What's Next?</u> AP Spanish Language AB  <i>Course taught by locally certified gifted teacher.</i></p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>AP SPANISH LANGUAGE AND CULTURE AB</b></p>	<p><b>4081 AB</b></p>
<p>AP Spanish Language and Culture covers material corresponding to an intermediate-level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying the interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges.</p>	<p>A3440100  Grade level: 9 – 12</p>
<p><u>Instructional Material:</u> 1650 – <i>Triángulo Aprobado IV, Wayside Publishing, Inc.; ISBN: 9781938026621</i>  <u>Prerequisites:</u> SSSPAN III &amp; IV or Honors Spanish III; taken in sequence  <u>What's Next?</u> AP Spanish Literature V AB  <i>Course taught by an AP trained teacher</i></p>	<p>Credit(s): 1  College Hour(s): NA  <b>Tier I</b></p>
<p><b>HONORS SPANISH V ABH</b></p>	<p><b>4328 AB</b></p>
<p>Affords an opportunity for students to carry on connected discourse in straightforward situations, to produce oral presentations and written reports on a variety of topics, and to interpret texts from various genres and subject areas. Fosters cultural and linguistic accuracy in communication</p>	<p>03440500  Grade level: 9 – 12</p>
<p><u>Instructional Material:</u> 1651 – <i>Azulejos V, Wayside Publishing, Inc.; ISBN: 9781942400301</i>  <u>Prerequisites:</u> Spanish IV  <u>What's Next?</u> NA  <i>Course taught by locally certified gifted teacher.</i></p>	<p>Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>AP SPANISH LITERATURE AND CULTURE AB</b></p>	<p><b>4083 AB</b></p>
<p>AP Spanish Literature is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other on-required texts.</p>	<p>A3440200  Grade level: 9 – 12</p>
<p><u>Instructional Material:</u> 1651 – <i>Azulejos V, Wayside Publishing, Inc.; ISBN: 9781942400301</i>  <u>Prerequisites:</u> Spanish IV or AP Spanish IV; taken in sequence</p>	<p>Credit(s): 1  College Hour(s): NA</p>

<u>What's Next?</u> Honors Spanish VI	<i>Course taught by an AP trained teacher</i>	<b>Tier I</b>
<b>HONORS SPANISH VI AB</b>		<b>4085 AB</b>
Affords an opportunity for students to participate fully in connected discourse; to communicate successfully in problematic situations; to explain, narrate, and describe in present, past, and future time; to analyze and interpret literary texts; and to write original compositions on a variety of topics. Fosters accuracy of expression and cultural behavior and the use of Spanish for future careers and personal enrichment		03440600
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>		Grade level: 9 – 12
<u>Prerequisites:</u> AP Spanish course		Credit(s): 1
<u>What's Next?</u> Honors Spanish VII		College Hour(s): NA
<i>Course taught by locally certified gifted teacher.</i>		<b>Tier I</b>
<b>HONORS SPANISH VI: FOR BUSINESS, LEGAL AND MEDICAL PERSONNEL VI AB</b>		<b>4089 AB</b>
This course provides instruction to develop essential vocabulary and language skills in Spanish needed to work in a business, law or medical career, and to familiarize students with basic processes and procedures involved in these fields. State elective credit		03440600
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Contact Content Director</i>		Grade level: 11 - 12
<u>Prerequisites:</u> Successful completion of AP Spanish IV AB or Spanish for Native Speakers III – IV		Credit(s): 1
<u>What's Next?</u> AP Spanish Literature and Culture, if not previously taken or Honors Spanish VII		College Hour(s): NA
<i>Teachers teaching this course must be Spanish certified, with some work experience in one or more of the fields preferred. Course taught by locally certified gifted teacher.</i>		<b>Tier I</b>
<b>SPANISH LEVEL I &amp; II (FOR SPANISH SPEAKERS)</b>		<b>4079A (SPANISH I AB)</b> <b>4079B (SPANISH IIAB)</b>
Compacts the content of Level I and Level II Spanish, focusing on reading, writing, and higher-level thinking skills. Offers standard grammar and expanded vocabulary. Includes the cultures of various Hispanic countries.		03440110 & 03440220
<u>Instructional Material:</u> 1654 – 1 <sup>st</sup> semester- <i>Sendas Literarias, Pearson Education, Inc., ISBN: 9780131163553,</i> 2 <sup>nd</sup> semester- <i>Sendas Literarias, Pearson Education, Inc., ISBN: 9780131163560</i>		Grade level: 9 – 12
<u>Prerequisites:</u> Good listening and speaking proficiency in Spanish and at least intermediate proficiency in English; taken in sequence		Credit(s): 1 – 2
<u>What's Next?</u> Honors Spanish III AB or Spanish for Spanish Speakers III AB & IV AB		College Hour(s): NA
<b>HONORS SPANISH LEVEL II (FOR SPANISH SPEAKERS)</b>		<b>4076 (SPANISH II AB)</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>		03440220
<u>Instructional Material:</u> 1654 - <i>Abriendo Paso, Pearson Education, Inc., ISBN: 9780133238006</i>		Grade level: 9 – 12
<u>Prerequisites:</u> Good listening and speaking proficiency in Spanish and at least intermediate proficiency in English; taken in sequence		Credit(s): 1
<u>What's Next?</u> Spanish for Spanish Speakers III AB & IV AB		College Hour(s): NA
<b>SPANISH LEVEL III &amp; IV (FOR SPANISH SPEAKERS)</b>		<b>4080A (SPANISH III AB)</b> <b>4080B (SPANISH IV AB)</b>
Emphasizes creative self-expression in the written language. This compacted and rigorous curriculum expands reading and interpretation of texts from various literary genres and various Content areas. Provides extensive practice in the presentation of oral and written narratives and reports. Promotes understanding of cultural practices and products, and fosters use of Spanish for future careers and personal enrichment		03440330 & 03440440
<u>Instructional Material:</u> 1655- <i>Primary – Encuentros Maravilloso Gramática, Pearson Education, Inc., ISBN 9780133693744 and Secondary- Abriendo Paso, Pearson Education, Inc., ISBN: 9780133238006</i>		Grade level: 9 – 12
<u>Prerequisites:</u> Spanish for Spanish Speakers IIAB or Honors Spanish for Spanish Speakers IIAB; taken in sequence		Credit(s): 1 - 2
<u>What's Next?</u> AP Spanish Language IV AB, AP Spanish Literature V AB, or Honors Spanish VI for Business, Legal & Medical Personnel		College Hour(s): NA
<b>SPANISH LEVEL I AB (FOR SPANISH SPEAKERS)</b>		<b>4074 AB (SPANISH I AB)</b>
Compacts the content of Level I and Level II Spanish, focusing on reading, writing, and higher-level thinking skills. Offers standard grammar and expanded vocabulary. Includes the cultures of various Hispanic countries.		03440110
<u>Instructional Material:</u> 1654 – 1 <sup>st</sup> semester- <i>Sendas Literarias, Pearson Education, Inc., ISBN: 9780131163553,</i> 2 <sup>nd</sup> semester- <i>Sendas Literarias, Pearson Education, Inc., ISBN: 9780131163560</i>		Grade level: 9 – 12
<u>Prerequisites:</u> Good listening and speaking proficiency in Spanish and at least intermediate proficiency in English taken in sequence		Credit(s): 1
<u>What's Next?</u> Honors Spanish for Spanish Speakers II		College Hour(s): NA
Offered only at WLI		<b>Tier III</b>
<b>HONORS SPANISH LEVEL II AB (FOR SPANISH SPEAKERS)</b>		<b>4076 AB (SPANISH II AB)</b>
The honors course is designed for ninth grade students who have completed two years of languages in middle school or highly motivated language learners. These students will expand and strengthen the linguistic skills learned during their first language course. Students will be expected to participate in daily aural and written activities and conduct classroom conversations to create an immersion-type experience. <i>Students in this course are required to complete an approved Global Citizen project at the end of the year.</i>		03440220
		Grade level: 9 – 12
		Credit(s): 1
		College Hour(s): NA

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Instructional Material: 1654 - *Abriendo Paso*, Pearson Education, Inc., ISBN: 9780133238006

**Tier II**

Prerequisites: Spanish for Spanish Speakers I; taken in sequence

What's Next? Spanish for Spanish Speakers III

Offered only at WLI

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**HONORS SPANISH LEVEL III AB (FOR SPANISH SPEAKERS)**

**4075 AB (SPANISH III AB)**

Emphasizes creative self-expression in the written language. This compacted and rigorous curriculum expands reading and interpretation of texts from various literary genres and various Content areas. Provides extensive practice in the presentation of oral and written narratives and reports. Promotes understanding of cultural practices and products, and fosters use of Spanish for future careers and personal enrichment.

03440330

Grade level: 9 – 12

Credit(s): 1

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Instructional Material: 1655- *Primary – Encuentros Maravilloso Gramática*, Pearson Education, Inc., ISBN:

9780133693744 and *Secondary- Abriendo Paso*, Pearson Education, Inc., ISBN: 9780133238006

Prerequisites: Spanish for Spanish Speakers IIAB or Honors Spanish for Spanish Speakers IIAB; taken in sequence

What's Next? AP Spanish Language IV AB, AP Spanish Literature V AB, or Honors Spanish VI for Business, Legal &

Medical Personnel

Offered only at WLI

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College Hour(s): NA

**Tier II**

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# ***CAREER AND TECHNICAL EDUCATION***

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# Career and Technical Education (CTE)

## Public Notification of Non-Discrimination in Career and Technical Education Programs

The Fort Worth Independent School District offers CTE programs in the following Career Areas:

Agriculture, Food and Natural Resources;  
Architecture and Construction;  
Arts, Audio Video Technology, and Communications (*Arts A/V*);  
Business, Marketing, and Finance;  
Education and Training;  
Energy (*P-TECH Program only*);  
Engineering;  
Health Science;  
Hospitality and Tourism;  
Human Services;  
Information Technology;  
Law and Public Service;  
Manufacturing;  
Transportation, Distribution and Logistics.

Admission to the above programs is based on interest, lottery selection, age appropriateness, and class space availability.

It is the policy of Fort Worth ISD not to discriminate on the basis of race, color, religion, gender, national origin, age, sexual orientation, disability, gender identity and expression, military/veteran status, or any other basis prohibited by law 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.

Fort Worth ISD will take steps to assure that the lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

The Fort Worth Independent School District prohibits discrimination, including harassment, against any employee on the basis of race, color, religion, gender, national origin, age, sexual orientation, disability, gender identity and expression, military/veteran status, or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of District policy. The following persons have been designated to handle inquiries regarding the non-discrimination policies: Patricia Sutton, Director of Special Services, 7060 Camp Bowie Blvd., Fort Worth, TX 76116, 817.814.2458, E-mail: [Patricia.Sutton@fwisd.org](mailto:Patricia.Sutton@fwisd.org). Cynthia Allen, Title IX Coordinator, 7060 Camp Bowie Blvd., Fort Worth, TX 76116, 817.814.1880, Email: [Cynthia.Allen1@fwisd.org](mailto:Cynthia.Allen1@fwisd.org). Dr. Lisa Langston, Director of UIL Compliance, 1501 University Dr, Fort Worth, TX 76107, 817.815.7307, Email: [Lisa.Langston@fwisd.org](mailto:Lisa.Langston@fwisd.org).

Fort Worth ISD Career & Technical Education (CTE) offers a variety of Programs of Study. Each Program of Study has a developed coherent sequence of courses to provide students with an option to receive an Endorsement with their high school diploma based on House Bill 5/Foundation Graduation Program Requirements. Each Program of Study begins with foundation courses that allow students to explore the careers and learn basic concepts and skills needed within that focus. As students move forward in the Program of Study, they will begin to take technical courses that provide them with advanced knowledge and skills in preparation for postsecondary education and/or for jobs in their chosen career field. Programs of Study also prepare students to complete industry certifications that will allow them to become more employable with higher starting wages and provide them with a Performance Acknowledgement in an Endorsement.

### What is an endorsement?

Endorsements are made up of four courses for four or more credits taken in a coherent sequent providing advanced or more in-depth knowledge and skills in a curriculum area. Middle school students should explore career information related to the endorsement areas listed below so they may begin to think about what areas they will want to take more in-depth course work during their educational career in high school.



Each endorsement requires students to complete a foundation of academic courses and a coherent sequence of courses within the endorsement area that lead to advanced studies. Endorsements are earned by successfully completing 26 credits including:

**4 math**  
credits

**4 science**  
credits

**4 or more** credits in a coherent sequence  
aligned to their endorsement area

**2 additional elective** credits (can be part  
of the endorsement coherent sequence)

## What is a Program of Study?

*Did you know that there are thousands of different careers in the United States?* To help organize the thousands of careers, the U.S. Department of Labor has organized them into career areas with occupations and broad industries that share certain features. In FWISD Career and Technical Education (CTE), the many available [programs of study](#) provide you with a developed coherent sequence that can lead to an endorsement with your high school diploma. Think of a program of study as being like a college major. Each program of study begins with foundation courses that allow you to explore the careers within the focus and to learn basic concepts and skills needed for careers within that program of study. As you move forward in the program of study, you will begin to take technical courses that provide you with advanced knowledge and skills in preparation for postsecondary training and/or for jobs in your chosen career field. Many programs of study will lead into a capstone experience junior or senior year, that allows you to graduate with a performance acknowledgement on your diploma. These experiences include earning dual credit, a level I or II college certificate, an industry-based certification, a work-based learning experience, and/or a paid internship opportunity. A CTE Capstone Experience will help you build industry relationships and prepare for the real-world which will, in turn, help you to become more employable in high-need, high-wage jobs of your interest. Additionally, you can use this opportunity to find a job that could help pay for college or post-secondary education.

### Business and Industry Endorsement

**Agriculture, Food & Natural Resources** careers focus on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

**Architecture & Construction** careers focus on designing, planning, managing, building and maintaining the built environment.

**Arts, A/V Technology & Communications** careers focus on designing, producing, exhibiting, performing, writing, and publishing multimedia content. These focuses include visual and performing arts, design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

**Business, Marketing & Finance** careers focus on planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

**Energy** careers focus on the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

**Hospitality & Tourism** careers focus on the management, marketing and operations of restaurants, food/ beverage services, lodging, attractions, recreation events and travel related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

**Information Technology** careers focus on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, and multimedia and systems integration services.

**Manufacturing** careers focus 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 manufacturing/process engineering.

**Transportation, Distribution & Logistics** careers focus on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

### Public Services Endorsement

**Education & Training** careers focus 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.

**Health Science** careers focus on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

**Human Services** careers focus on preparing individuals for employment in careers that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

**Law and Public Service** careers focus on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

### STEM Endorsement

**Engineering** careers focus on the planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles.

Further details about specific programs of study and those with multiple endorsement opportunities can be found on the [CTE Programs of Study Alignment to Endorsements](#) page on the <http://tea.texas.gov> site.



### **What is the difference between a program of study and an endorsement?**

A *program of study* is a sequence of courses within a career cluster and link what students learn in school with the knowledge and skills they need for success in college and careers. *Endorsements* require that the students take four courses from basic skills to advanced courses in the sequence to receive the endorsement when the student graduates from high school.

### **What is a coherent sequence?**

A *coherent sequence* is a series of courses that relate to a student's career interest and program of study. A coherent sequence builds from foundation and/or exploratory courses to courses that include higher level skills and knowledge to courses that allow the student to practice the high-level skills they have learned either in a lab setting or in the workplace.

### **Why is it important to offer a coherent sequence of courses?**

A *coherent sequence of courses* helps students take various levels of courses throughout high school that prepares students for their secondary and postsecondary level career goals. The sequence lets students build their knowledge and skills from the basic level to a more technical and advanced level. The more advanced technical level courses provide students with the opportunity to take an industry-based certification offered within their program/career area as well as graduate high school with an industry endorsement.

### **How do you know if you are in a coherent sequence?**

A coherent sequence of courses builds from foundation-level to workplace-level skills and knowledge. If you follow one of the programs of study listed in this CTE section of the course catalog, you will be participating in a coherent sequence.

### **Is a program of study flexible, if I decide to change?**

Students should stay in the courses of their selected program of study in order to receive an endorsement when they graduate, but course curriculum can be flexible. Since there are a variety of jobs and positions at different levels within each occupational group, the courses students take for one career pathway may apply to a variety of different careers within the same pathway. Therefore, students have the opportunity to explore a variety of occupations within a chosen program of study and to learn a variety of skills that allows flexibility within students' education and career goals. For example, learning Business Entrepreneurship within their Culinary Program of Study.

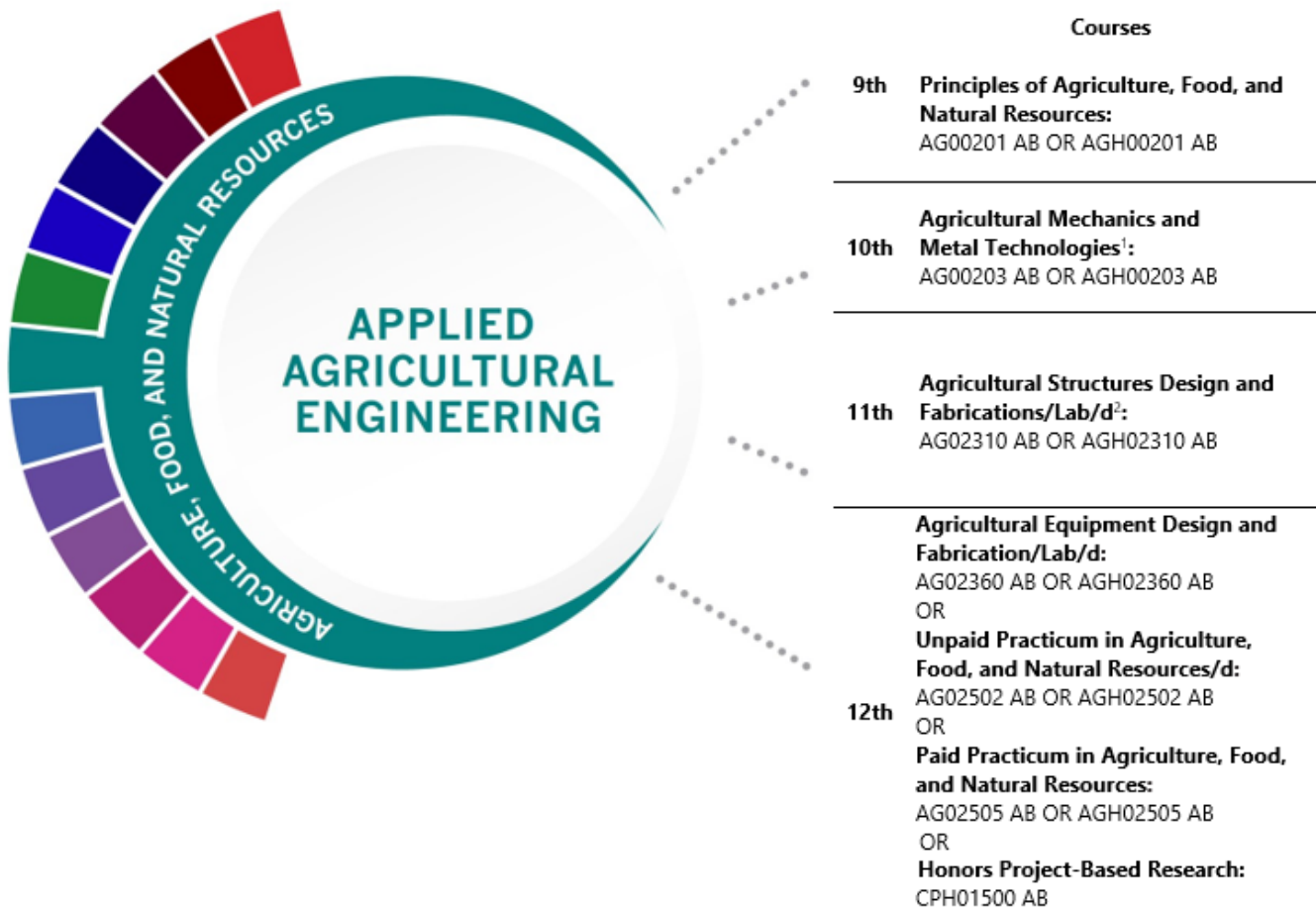
### **What if you change your mind?**

Students need to take the basic prerequisite courses to build the knowledge and skills before taking the higher-level courses. However, some courses are offered in other programs of study where the student can easily transfer. Additionally, some programs allow for students to switch programs of study after taking the first-level course within the sequence and without repeating the first-level course in the new program. The student will need to get guidance from their assigned counselor and CTE teacher, prior to changing. However, even if students start over at the basic course level, students really have not lost anything since they will have gained transferable knowledge and skills from the previous program of study that can be used throughout life.

### **What is a 4-year progression plan (graduation plan)?**

A progression/graduation plan maps out a student's suggested high school coursework that will lead them to their chosen pathway. This helps students choose their future courses and helps guide in scheduling students correctly, which includes all core, elective, and coherent sequence of courses within their selected program of study. Progression plans identify whether students are on track for graduation as well as determine whether a student will graduate with a college and/or career preparedness measure and industry endorsement. Counselors review progression plans with each student annually and update as changes to courses or programs of study arise.

## Guidance for Reading CTE Career Focus Charts



As you move through the CTE career endorsement areas, you will follow the guidance documents for each program of study. The following is presented to guide you through understanding each chart. The example above is taken from the Applied Agricultural Engineering program of study. You can see the grade level where certain courses are to be taken.

Notice that one of the courses offered for 11<sup>th</sup> grade is denoted with the abbreviation of 'd' (short for 'double blocked') in the course number. These courses are scheduled across two class periods and will allow students to earn 2.0 credits. Similarly, "t" stands for "triple blocked" and will allow students to earn 3.0 credits. "T" stands for "term", which is a one-semester only course and will allow students to earn 0.5 credit.

The other courses without a "/d" consist of both an 'A' and 'B' component that must be taken in order for the student to earn 1.0 credit. This is exactly how most students think of taking any core class like English or Math. These courses are **not** to be broken up into separate years of high school. If multiple courses are offered at a grade level but are not **all** required, the word "OR" will be used to demonstrate choice of courses.

Students qualify for certain Practicum Experiences as they near graduation. Each Endorsement will vary in the availability and content of these experiences.

Finally, we know the options can quickly become overwhelming. You are therefore urged to contact your campus counselor or the CTE office for any questions you may have at [817.814.1530](tel:817.814.1530).

## CTE Elective Courses

CTE students are expected to follow a four-year coherent sequence of courses as designated in the CTE Career Programs of Study and Focus Charts. However, there are some courses that students are able to take as an elective or enrichment course, outside of a coherent sequence, which may also offer industry-based certification exam opportunities. The CTE elective courses and descriptions are listed below.

### COURSE DESCRIPTIONS FOR CTE ELECTIVE CLASSES

<p><b>PROFESSIONAL COMMUNICATIONS T (PROFCOMM T)</b></p> <p>Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. This course is also offered at middle school campuses for high school speech and CTE credit. The credit is earned only if the middle school teacher was certified to teach the course at the time the student was enrolled.</p> <p><u>Instructional Material:</u> <i>Professional Communications, 2017 Edition, Goodheart-Willcox Co.</i></p> <p><u>Prerequisite(s):</u> None</p> <p><i>Professional Communications can be taught by any teacher certified in speech or career and technical education who has been credentialled through the district to teach this course. Contact the CTE Dept. for credentialing and training information.</i></p>	<p><b>AV09901T</b></p> <p>13009900 Grade level: 8 - 12 HS Credit(s): 0.5</p> <p>College Hour(s): NA <b>Tier III</b></p>
<p><b>TOUCH SYSTEM DATA ENTRY T (TSDATAE T)</b></p> <p>In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry skills for production of business documents. This course is also offered at middle school campuses that can qualify for high school CTE credit. The credit is earned only if the middle school teacher was certified to teach the course at the time the student was enrolled.</p> <p><u>Instructional Material:</u> <i>Cashman Series: Microsoft Office 365 and Office 2016: Introductory, Cengage Learning, Inc.</i></p> <p><u>Prerequisite(s):</u> None</p>	<p><b>BA11301T</b></p> <p>13011300 Grade level: 8 - 10 HS Credit(s): 0.5</p> <p>College Hour(s): NA <b>Tier III</b></p>
<p><b>BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB)</b></p> <p>In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.</p> <p><u>Instructional Material:</u> <i>Cashman Series: Microsoft Office 365 and Office 2016: Introductory, Cengage Learning, Inc.</i></p> <p><u>Prerequisite(s):</u> None</p>	<p><b>BA11412AB</b></p> <p>13011400 Grade level: 9 - 12 HS Credit(s): 1</p> <p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Cashman Series: Microsoft Office 365 and Office 2016: Introductory, Cengage Learning, Inc.</i></p> <p><u>Prerequisite(s):</u> None</p>	<p><b>BAH11412AB</b></p> <p>13011400 Grade level: 9 - 12 HS Credit(s): 1</p> <p>College Hour(s): NA <b>Tier II</b></p>
<p><b>MONEY MATTERS AB (MONEYM AB)</b></p> <p>In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain the knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.</p> <p><u>Instructional Material:</u> <i>Dave Ramsey's Foundations of Personal Finance, High School Edition, 2014</i></p> <p><u>Prerequisite(s):</u> None</p>	<p><b>FN16201AB</b></p> <p>13016200 Grade level: 9 - 12 HS Credit(s): 1</p> <p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS MONEY MATTERS AB (MONEYM AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Dave Ramsey's Foundations of Personal Finance, High School Edition, 2014</i></p> <p><u>Prerequisite(s):</u> None</p>	<p><b>FNH16201AB</b></p> <p>13016200 Grade level: 9 - 12 HS Credit(s): 1</p> <p>College Hour(s): NA <b>Tier II</b></p>

<b>CHILD DEVELOPMENT AB (CHLDDEV AB)</b>	<b>HV24701AB</b>
This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students are equipped with child development skills necessary to promote the well-being and healthy development of children and to investigate careers related to the care and education of children. Students explore the principles and procedures for promoting the physical, emotional, social, and intellectual development of young children, including those with special needs. Topics include characteristics of quality childcare and career options related to the care and education of children.	13024700 Grade level: 9 - 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Texas - Family &amp; Consumer Science, iCEV</i> <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>HONORS CHILD DEVELOPMENT AB (CHLDDEV AB/H)</b>	<b>HVH24701AB</b>
In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.	13024700 Grade level: 9 – 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Texas - Family &amp; Consumer Science, iCEV</i> <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier II</b>
<b>LIFETIME NUTRITION AND WELLNESS T (LNURTWEL T)</b>	<b>HV24501T</b>
This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness. This course concentrates on nutrition, food choices, and food management skills. Students address nutrition and food preparation from the perspective of food habits and wellness, menu planning, special dietary needs, food costs and budgeting, consumer food-buying strategies, food safety and sanitation, preparation and storage practices. This course will help students gain the knowledge to pursue careers related to hospitality and tourism, education and training, human services, and health sciences.	13024500 Grade level: 10 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> <i>Guide to Good Food, Goodheart-Willcox Co., ISBN#: 9781683111764</i> <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>HONORS LIFETIME NUTRITION AND WELLNESS T (LNURTWEL T/H)</b>	<b>HVH24501T</b>
In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.	13024500 Grade level: 10 – 12 HS Credit(s): 0.5
<u>Instructional Material:</u> <i>Guide to Good Food, Goodheart-Willcox Co., ISBN#: 9781683111764</i> <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier II</b>
<b>CAREER PREPARATION GENERAL I AB (CPGEN1)</b>	<b>CP01300 AB</b>
<u>This course must be approved by the CTE Department before use on campus.</u> This course is a paid capstone experience for students who have found employment for the school year. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for <u>ten hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701111 Grade level: 11 - 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION GENERAL II AB (CPGEN2)</b>	<b>CP01400 AB</b>
<u>This course must be approved by the CTE Department before use on campus.</u> The Career Preparation II course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course: working <u>ten hours per week</u> (or average of 20 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation General I course. This is a full year course.	12701112 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION GENERAL I/EXTENDED I AB (EXCPGEN 1)</b>	<b>CP01302 AB</b>
<u>This course must be approved by the CTE Department before use on campus.</u> This course is a paid capstone experience for students who have found employment for the school year. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for <u>fifteen hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701131 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>

<b>CAREER PREPARATION GENERAL II/EXTENDED (EXCPGEN2)</b>	<b>CP01402 AB</b>
<u>This course must be approved by the CTE Department before use on campus.</u> The Career Preparation I/Extended course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>fifteen hours per week</u> (or average of 30 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation General I/Extended course. This is a full year course..	12701132 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>FUNDAMENTALS OF COMPUTER SCIENCE AB (TAFCS AB)</b>	<b>2140AB</b>
Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.	03580140 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> <i>Texas - Fundamentals of Computer Science, CodeHS</i> <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>HONORS FUNDAMENTALS OF COMPUTER SCIENCE AB/H (TAFCS AB/H)</b>	<b>2150AB</b>
In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.	03580140 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> <i>Texas - Fundamentals of Computer Science, CodeHS</i> <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier II</b>
<b>COMPUTER SCIENCE I AB (TACS 1AB)</b>	<b>2151AB</b> <b>*WL2151AB</b>
Students develop a solid foundation in computer terminology and programming, binary and hexadecimal number systems, computer ethics (including copyright laws and privacy), and structured programming and programming techniques on personal computers are emphasized. Students will study and write programs utilizing the high- level languages FORTRAN, Pascal, and/ or C++. Students may be awarded one *LOTE credit (WL2151 AB) or one elective credit (2151 AB) for successful completion of this course.	03580200 Grade level: 9 -12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Texas - Computer Science I, CodeHS</i> <u>Prerequisite(s)</u> (for those pursuing the course as an elective or following the Computer Science sequence): None <u>Prerequisite(s)</u> (for those following the Cybersecurity sequence): Principles of Information Technology or Foundations of Cybersecurity	College Hour(s): NA <b>Tier III</b>
<b>HONORS COMPUTER SCIENCE I AB/H (TACS 1AB/H)</b>	<b>2141AB</b> <b>*WL2141AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study. Students may be awarded one *LOTE credit (WL2141 AB) or one elective credit (2141 AB) for successful completion of this course.	03580200 Grade level: 9 - 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Texas - Computer Science I, CodeHS</i> <u>Prerequisite(s)</u> (for those pursuing the course as an elective or following the Computer Science sequence): None <u>Prerequisite(s)</u> (for those following the Cybersecurity sequence): Principles of Information Technology or Foundations of Cybersecurity	College Hour(s): NA <b>Tier II</b>
<b>COMPUTER SCIENCE II AB (TACS 2AB)</b>	<b>2153AB</b> <b>*WL2153AB</b>
Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts. Students may be awarded one *LOTE credit (WL2143 AB) or one elective credit (2143 AB) for successful completion of this course.	03580300 Grade level: 10 – 12 HS Credit(s): 1

<u>Instructional Material</u> : : Texas - Computer Science II, CodeHS <u>Prerequisite(s)</u> : Computer Science I	College Hour(s): NA <b>Tier III</b>
<b>HONORS COMPUTER SCIENCE II AB/H (TACS 2AB/H)</b>	<b>2143AB</b> <b>*WL2143AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study. Students may be awarded one *LOTE credit (WL2143 AB) or one elective credit (2143 AB) for successful completion of this course.	03580300 Grade level: 10 – 12 HS Credit(s): 1
<u>Instructional Material</u> : : Texas - Computer Science II, CodeHS <u>Prerequisite(s)</u> : Computer Science I	College Hour(s): NA <b>Tier II</b>
<b>AP COMPUTER SCIENCE A AB (APTACSA 1AB, APTACSAL AB, APTACSAM AB)</b>	<b>2142AB</b> <b>*WL2142AB</b> <b>**M2142AB</b>
AP Computer Science A is designed for qualified students in grades 10 - 12 who wish to complete the equivalent of a college introductory course in computer science. The course will focus on programming methodology, and procedural abstraction. It also includes the study of algorithms, data structures, and data abstraction, but covered in less depth than in the Computer Science III AB course. The course follows the College Board AP® Computer Science A Curriculum Framework. Students <b>must</b> be scheduled into two of the following three course numbers for this course: 2142 AB for an elective credit, M2142 AB for a math credit, and WL2142 AB for a LOTE credit. Students will be awarded two credits for successful completion of this course.	A3580120, A3580120, A3580110 Grade level: 10 - 12 HS Credit(s): 2
<u>Instructional Material</u> : Contact Career and Technical Education Department for related materials that are approved by the AP College Board. <u>Prerequisite(s)</u> : Computer Science I OR Computer Science II OR AP Computer Science Principles	College Hour(s): NA <b>Tier I</b>
<b>OnRamps COMPUTER SCIENCE 1AB (TACS 1 AB OR)</b>	<b>2159AB</b>
Thriving in Our Digital World is a new dual enrollment course that teaches computer science principles, a set of core ideas that shapes the landscape of computer science and its impact on our society. In addition to learning about the magic and beauty of computing, students will acquire essential Texas College and Career Readiness skills, applying critical thinking, problem solving, and communication within a project-based learning framework. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin (UT). Students can earn three hours of UT credit with feedback and assessment provided by UT course staff. OnRamps works through a dual-enrollment model. Using a hybrid delivery approach, students meet rigorous university-level college readiness standards and have the opportunity to earn UT Austin credit from a UT faculty member and high school credit from their local teacher.	A3580300 Grade level: 10 - 12 HS Credit(s): 1
<u>Instructional Material</u> : Selected and provided by the University of Texas at Austin <u>Recommended Prerequisite(s)</u> : Algebra II ( <i>preferred</i> ) <u>Prerequisite(s)</u> : Algebra I <u>What's Next?</u> NA	College Hour(s): 3 hours <b>Tier I</b>
<b>AP COMPUTER SCIENCE PRINCIPLES AB (APTACS PRIN)</b>	<b>2157AB</b> <b>*WL2157AB</b>
This course introduces students to the foundational ideas of computer science, while providing exposure to computational content, computational thinking skills, creative aspects of the field and their impact on the world. Students will be provided the opportunity to investigate the innovations in other fields of computing while examining the ethical implications of new computing technologies. The course follows the College Board AP® Computer Science Principles Curriculum Framework. Students may be awarded one *LOTE credit (TAWL2157 AB) or one elective credit (TA2157 AB) for successful completion of this course.	A3580300 Grade level: 10 – 12 HS Credit(s): 1
<u>Instructional Material</u> : Contact Career and Technical Education Department for related materials that are approved by the AP College Board <u>Prerequisite(s) (for those pursuing the course as an elective)</u> : None <u>Prerequisite(s) (for those following the Cybersecurity sequence)</u> : Honors PLTW Computer Science Essentials or Foundations of Cybersecurity <u>Prerequisite(s) (for those following the Computer Science sequence)</u> : None	College Hour(s): NA <b>Tier I</b>



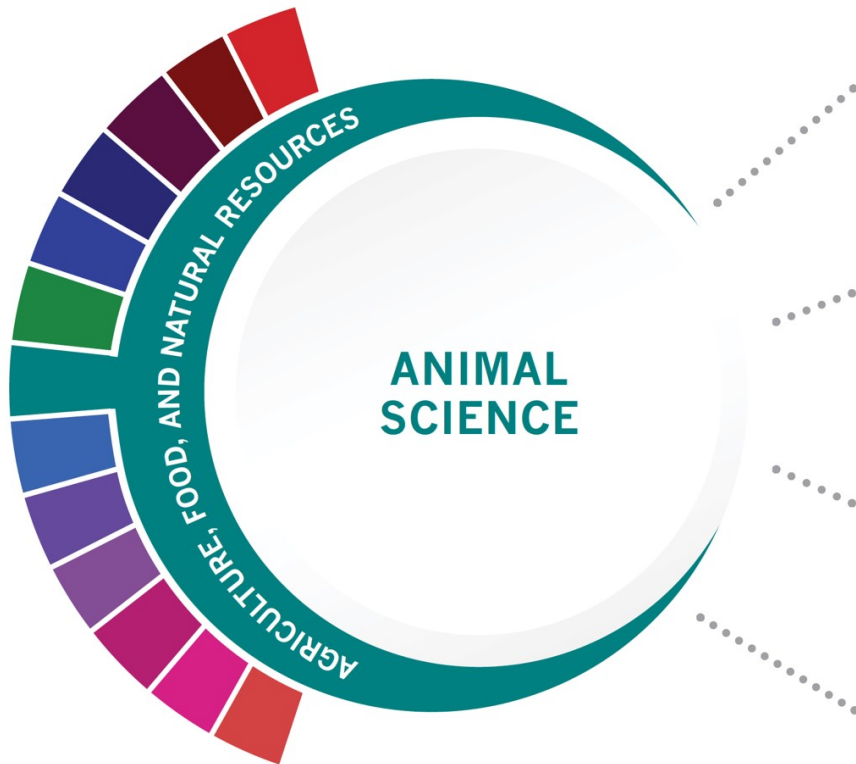
## **Agriculture, Food, and Natural Resources**

### **Animal Science**

### **Agricultural Technology and Mechanical Systems**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.

## Courses



**9th** Principles of Agriculture, Food, and Natural Resources:  
AG00201 AB OR AGH00201 AB

**10th** Small Animal Management T:  
AG00402 T OR AGH00402 T  
AND  
Equine Science T:  
AG00501 T OR AGH00501 T

**11th** Livestock Production<sup>1</sup>:  
AG00302 AB OR AGH00302 AB

**Veterinary Medical Applications/Lab/d<sup>2</sup>:**  
AG00610 AB OR: AGH00610 AB  
OR

**Unpaid Practicum in Agriculture, Food, and Natural Resources/d:**  
AG02502 AB OR AGH02502 AB  
OR

**Paid Practicum in Agriculture, Food, and Natural Resources:**

**12th** AG02505 AB OR AGH02505 AB  
OR

**Honors Project-Based Research:**  
CPH01500 AB  
OR

**Career Preparation for Programs of Study:** CPPS 1 AB

**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

### Enrichment Courses:

- **Floral Design<sup>4</sup>:** AG01802 AB OR Honors: AGH01802 AB
- **Advanced Animal Science:** AG00702 AB OR Honors: AGH00702 AB
- **Wildlife, Fisheries and Ecology Management:** AG01501 AB OR Honors: AGH01501 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Feedyard Technician in Cattle Care and Handling<sup>1</sup>; Certified Veterinary Assistant<sup>2</sup>

Not counted toward Performance Acknowledgment: N/A

### Available at:

- Arlington Heights HS
- Diamond Hill-Jarvis HS

Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

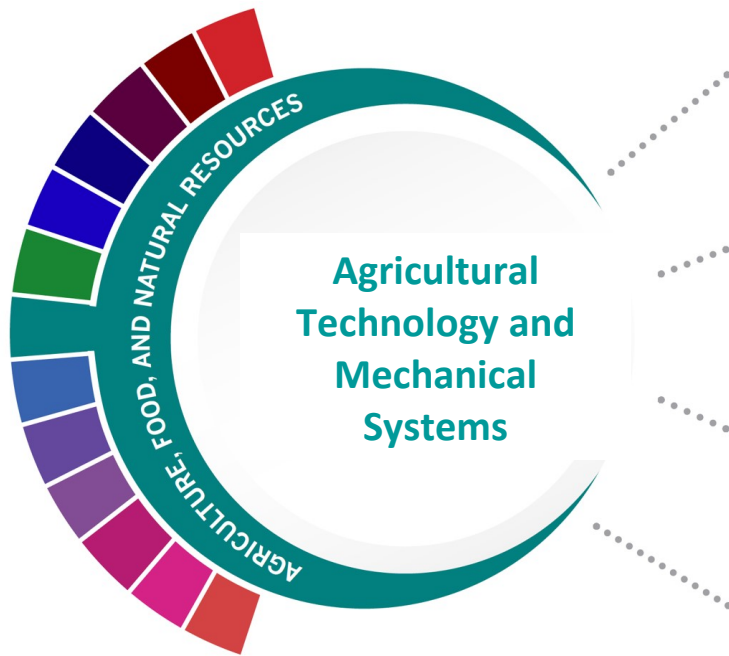


The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020



## Courses



**9th Principles of Agriculture, Food, and Natural Resources:**  
AG00201 AB OR AGH00201 AB

**10th Agricultural Mechanics and Metal Technologies<sup>1</sup>:**  
AG00203 AB OR AGH00203 AB

**11th Agricultural Structures Design and Fabrications/Lab/d<sup>2,3,4</sup>:**  
AG02310 AB OR AGH02310 AB

**Agricultural Equipment Design and Fabrication/Lab/d:**  
AG02360 AB OR AGH02360 AB  
OR  
**Unpaid Practicum in Agriculture, Food, and Natural Resources/d:**  
AG02502 AB OR AGH02502 AB  
OR  
**12th Paid Practicum in Agriculture, Food, and Natural Resources:**  
AG02505 AB OR AGH02505 AB  
OR  
**Honors Project-Based Research:**  
CPH01500 AB  
OR  
**Career Preparation for Programs of Study:** CPPS 1 AB  
OR  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

### Enrichment Courses:

- **Floral Design<sup>4</sup>:** AG01802 AB OR AGH01802 AB
- **Wildlife, Fisheries and Ecology Management:** AG01501 AB OR AGH01501 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: AWS D1.1 - Structural Welding<sup>2</sup>; AWS D9.1 - Sheet Metal<sup>3</sup>; Feedyard Technician in Machinery, Operation, Repair and Maintenance<sup>4</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour Agriculture Industry Certification<sup>1</sup>

### Available at:

- Arlington Heights HS
- South Hills HS

The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.



The Agriculture, Food, and Natural Resources (AFNR) Career Cluster<sup>®</sup> focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Successful completion of the Applied Agricultural Engineering program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised – July 2020

## COURSE DESCRIPTIONS FOR AGRICULTURE, FOOD & NATURAL RESOURCES CLASSES

<p><b>PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES AB (PRINAFNR AB)</b></p> <p>Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations</p> <p><i>Instructional Material:</i> <i>Principles of Agriculture, Food &amp; Natural Resources</i>, Goodheart-Willcox Co.</p> <p><i>Prerequisite(s):</i> None</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AG00201AB</b></p> <p>13000200</p> <p>Grade level: 9 - 10</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES AB (PRINAFNR AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>Principles of Agriculture, Food &amp; Natural Resources</i>, Goodheart-Willcox Co</p> <p><i>Prerequisite(s):</i> None</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AGH00201AB</b></p> <p>13000200</p> <p>Grade level: 9 – 10</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>ADVANCED ANIMAL SCIENCE AB (ADVANSKI AB)</b></p> <p>Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.</p> <p><i>Instructional Material:</i> <i>ICEV Agricultural Science</i>, CEV Multimedia Ltd.</p> <p><i>Prerequisite(s):</i> Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AG00702AB</b></p> <p>13000700</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS ADVANCED ANIMAL SCIENCE AB (ADVANSKI AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>ICEV Agricultural Science</i>, CEV Multimedia Ltd.</p> <p><i>Prerequisite(s):</i> Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production</p> <p><i>Course taught by certified in Agriculture and highly qualified or meet HOUSE in science.</i></p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AGH00702AB</b></p> <p>13000700</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>EQUINE SCIENCE T (EQUINSCI T)</b></p> <p>In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules.</p> <p><i>Instructional Material:</i> <i>ICEV Agricultural Science Site</i>, CEV Multimedia Ltd.</p> <p><i>Prerequisite(s):</i> Principles of Agriculture, Food, and Natural Resources</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AG00501T</b></p> <p>13000500</p> <p>Grade level: 10 – 12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS EQUINE SCIENCE T (EQUINSCI T/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>ICEV Agricultural Science Site</i>, CEV Multimedia Ltd.</p> <p><i>Prerequisite(s):</i> Principles of Agriculture, Food, and Natural Resources</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AGH00501T</b></p> <p>13000500</p> <p>Grade level: 10 – 12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>LIVESTOCK PRODUCTION AB (LIVEPROD AB)</b></p> <p>In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.</p> <p><i>Instructional Material:</i> <i>Introduction to Livestock &amp; Companion Animals 5e</i>, Pearson Education</p> <p><i>Prerequisite(s):</i> Equine Science T or Small Animal Management T</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AG00302AB</b></p> <p>13000300</p> <p>Grade level: 10 – 12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS LIVESTOCK PRODUCTION AB (LIVEPROD AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>Introduction to Livestock &amp; Companion Animals 5e</i>, Pearson Education</p> <p><i>Prerequisite(s):</i> Equine Science T or Small Animal Management T</p> <p><i>Offered only at:</i> <i>Arlington Heights and Diamond Hill-Jarvis</i></p>	<p><b>AGH00302AB</b></p> <p>13000300</p> <p>Grade level: 10 – 12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>SMALL ANIMAL MANAGEMENT T (SMANIMGT T)</b></p> <p>In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.</p>	<p><b>AG00402T</b></p> <p>13000400</p> <p>Grade level: 10 - 12</p> <p>HS Credit(s): 0.5</p>

<p><u>Instructional Material:</u> ICEV Agricultural Science Site, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Principles of Agriculture, Food, and Natural Resources  <u>Offered only at:</u> Arlington Heights and Diamond Hill-Jarvis</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS SMALL ANIMAL MANAGEMENT T (SMANIMGT T/H)</b></p> <p>In addition to the regular course curriculum, curriculum enhancements for the honors course include web research, integration of applications to increase productivity in animal husbandry, and problem solving in other advanced livestock production processes. In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AGH00402T</b>  13000400  Grade level: 10 - 12  HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> ICEV Agricultural Science Site, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Principles of Agriculture, Food, and Natural Resources  <u>Offered only at:</u> Arlington Heights and Diamond Hill-Jarvis</p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>VETERINARY MEDICAL APPLICATIONS/LAB/D AB (VETMEDLAB AB)</b></p> <p>Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. This course provides students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings in preparation for an industry certification, the workforce and/or higher education in this field.</p>	<p><b>AG00610AB</b>  13000610  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> ICEV Agricultural Science Site, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Small Animal Management and/or Equine Science  <u>Offered only at:</u> Arlington Heights and Diamond Hill-Jarvis</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS VETERINARY MEDICAL APPLICATIONS/LAB/D AB (VETMEDLAB AB/H)</b></p> <p>In addition to the regular course curriculum, curriculum enhancements for the honors course include web research, integration of applications to increase skills in basic handling of animals and administration of medicines and medical procedures, and problem solving in other advanced veterinary applications. In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AGH00610AB</b>  13000610  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> ICEV Agricultural Science Site, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Small Animal Management and/or Equine Science  <u>Offered only at:</u> Arlington Heights and Diamond Hill-Jarvis</p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>WILDLIFE, FISHERIES AND ECOLOGY MANAGEMENT AB (WFECGT AB)</b></p> <p>Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.</p>	<p><b>AG01501AB</b>  13001500  Grade level: 10 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Wildlife &amp; Natural Resources Management, Cengage Learning Inc.  <u>Prerequisite(s):</u> Principles of Agriculture, Food, and Natural Resources  <u>Offered only at:</u> Arlington Heights</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS WILDLIFE, FISHERIES AND ECOLOGY MANAGEMENT AB (WFECGT AB/H)</b></p> <p>In addition to the regular course curriculum, curriculum enhancements for the honors course include web research, integration of applications to increase productivity in wildlife management and aquaculture production, and problem solving with habitat management. In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AGH01501AB</b>  13001500  Grade level: 11 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Wildlife &amp; Natural Resources Management, Cengage Learning Inc.  <u>Prerequisite(s):</u> Principles of Agriculture, Food, and Natural Resources  <u>Offered only at:</u> Arlington Heights</p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>FLORAL DESIGN AB (FLORAL AB)</b></p> <p>Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.</p>	<p><b>AG01802AB</b>  13001800  Grade level: 11 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Principles of Floral Design: An Illustrated Guide, Goodheart-Willcox Co.  <u>Prerequisite(s):</u>  Teacher must be highly qualified in fine arts.  <u>Offered only at:</u> Arlington Heights and Diamond Hill-Jarvis</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS FLORAL DESIGN AB/H (FLORAL AB/H)</b></p> <p>In addition to the regular course curriculum, curriculum enhancements for the honors course include web research, integration of applications to increase expertise with floral structures and aesthetics, and problem solving for product shelf-life marketability. In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AGH01802AB</b>  13001800  Grade level: 11 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Principles of Floral Design: An Illustrated Guide, Goodheart-Willcox Co.  <u>Prerequisite(s):</u>  <u>Offered only at:</u> Arlington Heights and Diamond Hill-Jarvis</p>	<p>College Hour(s): NA  <b>Tier II</b></p>

<b>UNPAID PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES/D AB (PRACAFNR1 AB)</b>	<b>AG02502AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. This course is designed to give students supervised practical application of knowledge and skills. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.	13002500 Grade level: 11 - 12 HS Credit(s): 2
<i>Instructional Material:</i> ICEV Agricultural Science Site, CEV Multimedia Ltd. <i>Prerequisite(s):</i> 2 credits from courses in the Agriculture, Food, and Natural Resources Cluster <i>Offered only at:</i> Arlington Heights and Diamond Hill-Jarvis	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID PRACTICUM IN AGRICULTURE, FOOD AND NATURAL RESOURCES/D AB/H (PRACAFNR1 AB/H)</b>	<b>AGH02502AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13002500 Grade level: 11 – 12 HS Credit(s): 2
<i>Instructional Material:</i> ICEV Agricultural Science Site, CEV Multimedia Ltd. <i>Prerequisite(s):</i> 2 credits from courses in the Agriculture, Food, and Natural Resources Cluster <i>Offered only at:</i> Arlington Heights and Diamond Hill-Jarvis	College Hour(s): NA <b>Tier II</b>
<b>PAID PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES/EXTENDED AB (EXPRAFNR1 AB)</b>	<b>AG02505AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. To remain in this practicum, a student must be employed for fifteen hours per week at an approved training station within ten days of enrollment in the program.	13002505 Grade level: 11 - 12 HS Credit(s): 3
<i>Instructional Material:</i> ICEV Agricultural Science Site, CEV Multimedia Ltd. <i>Prerequisite(s):</i> 1 credit from courses in the Agriculture, Food, and Natural Resources Cluster <i>Offered only at:</i> Arlington Heights and Diamond Hill-Jarvis	College Hour(s): NA <b>Tier III</b>
<b>HONORS PAID PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES/EXTENDED AB (EXPRAFNR1 AB/H)</b>	<b>AGH02505AB</b>
In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.	13002505 Grade level: 11 - 12 HS Credit(s): 3
<i>Instructional Material:</i> ICEV Agricultural Science Site, CEV Multimedia Ltd. <i>Prerequisite(s):</i> 1 credit from courses in the Agriculture, Food, and Natural Resources Cluster <i>Offered only at:</i> Arlington Heights and Diamond Hill-Jarvis	College Hour(s): NA <b>Tier II</b>
<b>AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES AB (AGMECMT AB)</b>	<b>AG00203AB</b>
Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.	13002200 Grade level: 10-11 HS Credit(s): 1
<i>Instructional Material:</i> Contact Career and Technical Education Department for related materials <i>Prerequisite(s):</i> Principles of Agriculture, Food and Natural Resources <i>Offered only at:</i> Arlington Heights	College Hour(s): NA <b>Tier III</b>
<b>HONORS AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES AB (AGMECMT AB/H)</b>	<b>AGH00203AB</b>
In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.	13002200 Grade level: 10-11 HS Credit(s): 1
<i>Instructional Material:</i> Contact Career and Technical Education Department for related materials <i>Prerequisite(s):</i> Principles of Agriculture, Food and Natural Resources <i>Offered only at:</i> Arlington Heights	College Hour(s): NA <b>Tier II</b>
<b>AGRICULTURAL STRUCTURES DESIGN AND FABRICATIONS/LAB/D AB (AGSDFLAB AB)</b>	<b>AG02310AB</b>
In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. The lab experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings.	13002310 Grade level: 11-12 HS Credit(s): 2

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Agricultural Mechanics and Metal Technologies  <i>Offered only at: Arlington Heights</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS AGRICULTURAL STRUCTURES DESIGN AND FABRICATIONS/LAB/D AB (AGSDFLAB AB/H)</b></p>	<p><b>AGH02310AB</b></p>
<p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p>13002310  Grade level: 11-12</p>
<p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p>13002310  Grade level: 11-12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Agricultural Mechanics and Metal Technologies  <i>Offered only at: Arlington Heights</i></p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>AGRICULTURAL EQUIPMENT DESIGN AND FABRICATION/LAB/D AB (AGEQDFLAB AB)</b></p>	<p><b>AG02360AB</b></p>
<p>In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. The lab experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings.</p>	<p>13002360  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Agricultural Structures Design and Fabrications/Lab AB  <i>Offered only at: Arlington Heights</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS AGRICULTURAL EQUIPMENT DESIGN AND FABRICATION/LAB/D AB (AGEQDFLAB AB/H)</b></p>	<p><b>AGH02360AB</b></p>
<p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p>	<p>13002360  Grade level: 11-12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Agricultural Structures Design and Fabrications/Lab AB  <i>Offered only at: Arlington Heights</i></p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>HONORS CTE PROJECT-BASED CAPSTONE AB (PROBS1 AB/H)</b></p>	<p><b>CPH01500AB</b></p>
<p>Students will research a real-world problem and possible solutions throughout this course. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.</p>	<p>12701101  Grade level: 11-12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Specific to program focus/pathway and is the previous course in the sequence.  <i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b></p>	<p><b>CP01121AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b></p>	<p><b>CP001132AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701141  Grade level: 11-12  HS Credit(s): 3</p>

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hours (s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b></p>	<p><b>CP001142AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701122  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b></p>	<p><b>CP01402AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701132  Grade level: 11-12  HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>



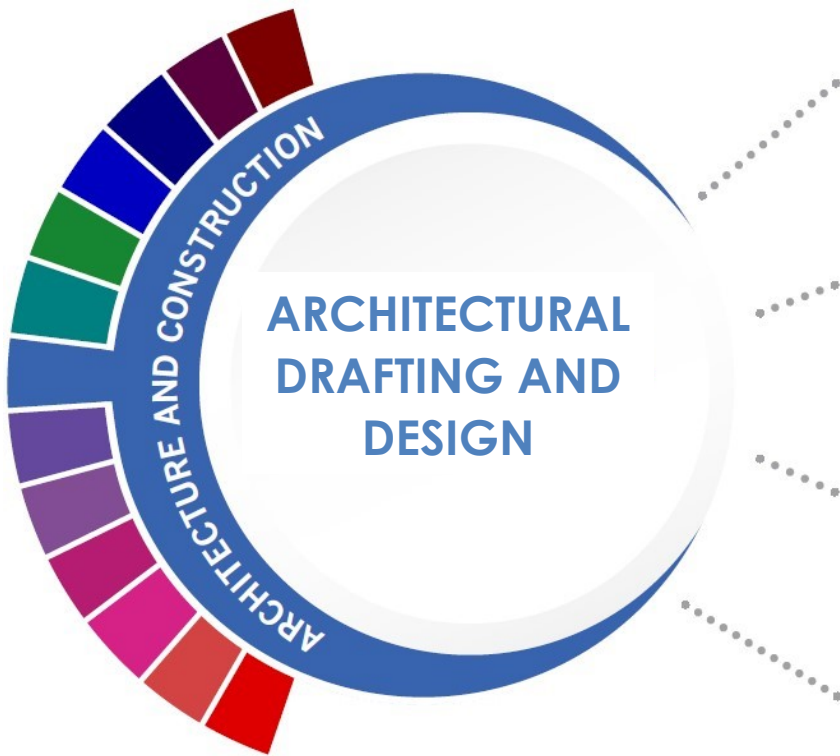
## **Architecture and Construction**

**Architectural Drafting and Design**

**Carpentry**

**Electrical**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

**9th Principles of Architecture:**  
AR04200 AB OR ARH04200 AB

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**10th Architectural Design I<sup>1</sup>:**  
AR04602 AB OR ARH04602 AB

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**11th Architectural Design II/d<sup>2</sup>:**  
AR04702 AB OR ARH04702 AB

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**12th Paid Practicum in Architectural Design<sup>3</sup>:**  
AR04812 AB OR ARH04812 AB  
OR  
**Unpaid Practicum in Architectural Design/d<sup>3</sup>:**  
AR04802 AB OR ARH04802 AB  
OR  
**Career Preparation for Programs of Study:** CPPS 1 AB  
OR  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

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**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Autodesk Certified User in AutoCAD<sup>2</sup>; Autodesk Certified User in Revit Architecture<sup>3</sup>
- Not Counted Towards Performance Acknowledgment: OSHA 10-Hour Construction Industry<sup>1</sup>

**Available at:**

- Diamond Hill-Jarvis HS
- Trimble Technical HS

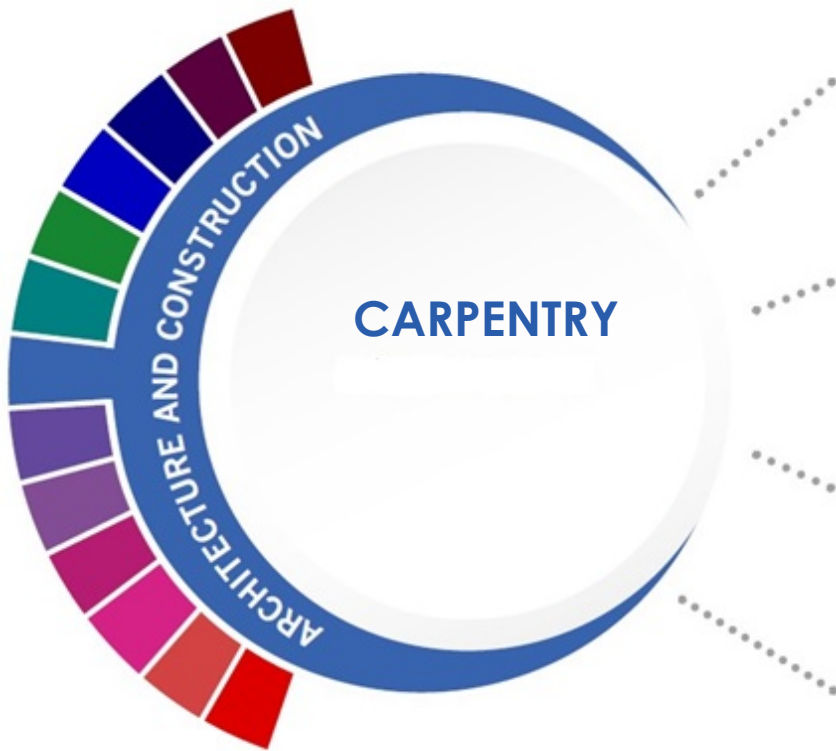
The Architectural Design program of study explores the occupations and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching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



The Architectural 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.

Successful completion of the Architectural Design program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised – July 2020





**Courses**

<b>9th</b>	<b>Principles of Construction:</b> AR04202 AB OR ARH04202 AB
<b>10th</b>	<b>Construction Technology I/d<sup>1,2</sup>:</b> AR00512 AB OR ARH00512 AB
<b>11th</b>	<b>Construction Technology II/d<sup>3</sup>:</b> AR05202 AB OR ARH05202 AB  <b>Mill &amp; Cabinetmaking Technology/d<sup>3</sup>:</b> AR05302 AB OR ARH05302 AB
<b>12th</b>	<b>Paid Practicum in Construction Technology:</b> AR05212 AB OR ARH05212 AB OR <b>Unpaid Practicum in Construction Technology/d:</b> AR06202 AB OR ARH06202 AB OR <b>Career Preparation for Programs of Study:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: NCCER Core Curriculum<sup>1</sup>; NCCER Construction Technology<sup>2</sup>
- Not Counted Towards Performance Acknowledgment: **OSHA 30-Hour Construction Industry Certification<sup>3</sup>**

**Available at:**

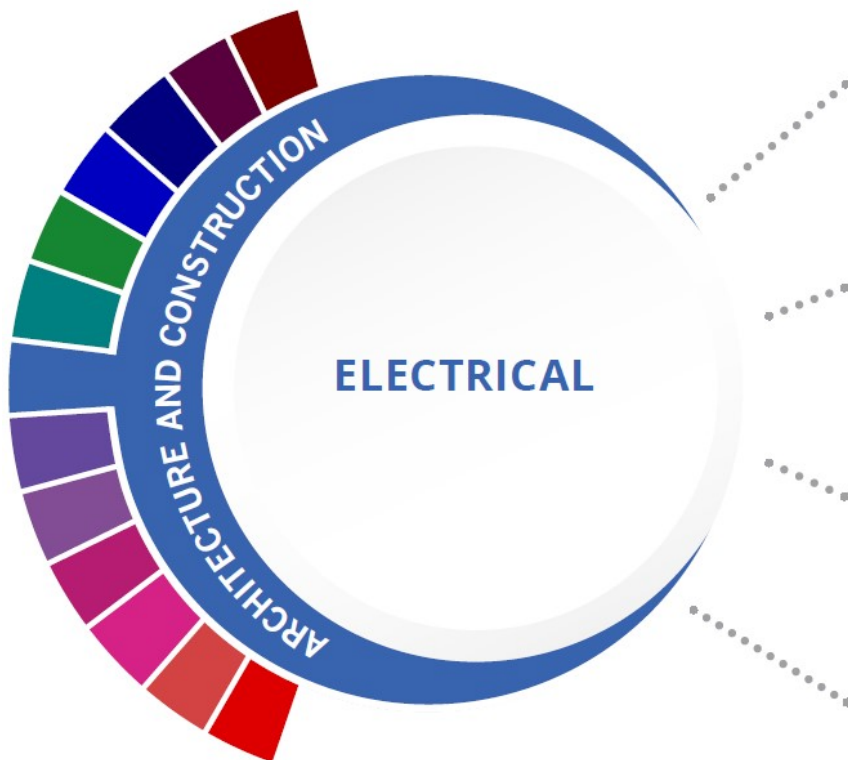
- Diamond Hill-Jarvis HS
- O.D. Wyatt HS
- Trimble Technical HS

The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.



The Architecture and Construction Career Cluster<sup>®</sup> focuses on designing, planning, managing, building, and maintaining the built environment.

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry Endorsement. Revised – July 2020



**Courses**

**9th**     **Principles of Construction:**  
AR04202 AB OR ARH04202 AB

**10th**    **Electrical Technology I<sup>1,2</sup>:**  
AR05602 AB OR ARH05602 AB

**11th**    **Electrical Technology II/d<sup>3</sup>:**  
AR05702 AB OR ARH05702 AB

**12th**    **Paid Practicum in Construction  
Technology<sup>4</sup>:** 4  
AR05712 AB or ARH05712 AB  
OR  
**Unpaid Practicum in Construction  
Technology/d<sup>4</sup>:**  
AR05700 AB OR ARH05700 AB  
OR  
**Career Preparation for Programs of  
Study:** CPPS 1 AB  
OR  
**Extended Career Preparation for  
Programs of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: NCCER Core Curriculum<sup>1</sup>; NCCER Electrical Level I<sup>2</sup>; IEC Electrical Apprenticeship Certification Level I<sup>4</sup>
- Not Counted Towards Performance Acknowledgment: OSHA 30-hour Construction Industry Certification<sup>3</sup>

**Available at:**

- Trimble Technical HS

The Electrical program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.



The Architecture and Construction Career Cluster<sup>®</sup> focuses on designing, planning, managing, building, and maintaining the built environment.

Successful completion of the Electrical Program of Study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised – July 2020

## COURSE DESCRIPTIONS FOR ARCHITECTURE AND CONSTRUCTION CLASSES

<p><b>PRINCIPLES OF ARCHITECTURE AB (PRINARCH AB)</b></p> <p>Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.</p> <p><u>Instructional Material:</u> <i>Architecture, Construction, Transportation and Manufacturing</i>, iCEV  <u>Prerequisite(s):</u> None  <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p><b>AR04200AB</b></p> <p>13004210            Grade level: 9 – 10            HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF ARCHITECTURE AB (PRINARCH AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Architecture, Construction, Transportation and Manufacturing</i>, iCEV  <u>Prerequisite(s):</u> None  <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p><b>ARH04200AB</b></p> <p>13004210            Grade level: 9 – 10            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>ARCHITECTURAL DESIGN I AB (ARCHDSN1 AB)</b></p> <p>In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I include the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.</p> <p><u>Instructional Material:</u> <i>Architecture: Residential Drafting and Design</i>, Goodheart-Willcox Co.  <u>Prerequisite(s):</u> Principles of Architecture, Algebra I, and English I  <u>Recommended Prerequisite(s):</u> Geometry  <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p><b>AR04602AB</b></p> <p>13004600            Grade level: 10 – 12            HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ARCHITECTURAL DESIGN I AB (ARCHDSN1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Architecture: Residential Drafting and Design</i>, Goodheart-Willcox Co.  <u>Prerequisite(s):</u> Principles of Architecture, Algebra I, and English I  <u>Recommended Prerequisite(s):</u> Geometry  <i>Offered at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p><b>ARH04602AB</b></p> <p>13004600            Grade level: 10 – 12            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>ARCHITECTURAL DESIGN II/d AB (ARCHDSN2 AB)</b></p> <p>In Architectural Design II, students will gain advanced knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design II includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Architectural Design I, Geometry  <i>Offered at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p><b>AR04702AB</b></p> <p>13004700            Grade level: 11 - 12            HS Credit(s): 2</p> <hr/> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ARCHITECTURAL DESIGN II/d AB (ARCHDSN2 AB/H)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Architectural Design I, Geometry  <i>Offered at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p><b>ARH04702AB</b></p> <p>13004700            Grade level: 11 – 12            HS Credit(s): 2            College Hour(s): NA  <b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN ARCHITECTURAL DESIGN/d AB (PRACADSN AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p>	<p><b>AR04802AB</b></p> <p>13004800            Grade level: 12            HS Credit(s): 2</p>

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Architectural Design II  <u>Offered at:</u> <i>Diamond Hill-Jarvis and Trimble Tech</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN ARCHITECTURAL DESIGN/d AB (PRACADSN AB/H)</b></p> <p>In addition to the regular course curriculum, students in this course will complete additional projects and activities related to the program of study.</p>	<p><b>ARH04802AB</b>  13004800  Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Architectural Design II  <u>Offered at:</u> <i>Diamond Hill-Jarvis and Trimble Tech</i></p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PAID PRACTICUM IN ARCHITECTURAL DESIGN/EXTENDED AB (EXPRADS1 AB)</b></p> <p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>AR04812AB</b>  13004805  Grade level: 12  HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Architectural Design II  <u>Offered at:</u> <i>Diamond Hill-Jarvis and Trimble Tech</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PAID PRACTICUM IN ARCHITECTURAL DESIGN AB/EXTENDED</b></p> <p>In addition to the regular course curriculum, students in this course will complete additional projects and activities related to the program of study.</p>	<p><b>ARH04812AB</b>  13004805  Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Architectural Design II  <u>Offered at:</u> <i>Diamond Hill-Jarvis and Trimble Tech</i></p>	<p>HS Credit(s): 3  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PRINCIPLES OF CONSTRUCTION AB (PRINCON AB)</b></p> <p>Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.</p>	<p><b>AR04202AB</b>  13004220  Grade level: 9 - 10  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Architecture, Construction, Transportation and Manufacturing, iCEV</i>  <u>Prerequisite(s):</u> None  <u>Offered only at:</u> <i>Diamond Hill-Jarvis, Trimble Tech and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF CONSTRUCTION AB (PRINCON AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>ARH04202AB</b>  13004220  Grade level: 9 – 10</p>
<p><u>Instructional Material:</u> <i>Architecture, Construction, Transportation and Manufacturing, iCEV</i>  <u>Prerequisite(s):</u> None  <u>Offered only at:</u> <i>Diamond Hill-Jarvis, Trimble Tech and OD Wyatt</i></p>	<p>HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>CONSTRUCTION TECHNOLOGY I/D AB (CONSTECH AB)</b></p> <p>In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. For safety and liability considerations, limiting course enrollment to 15 students is recommended.</p>	<p><b>AR00512AB</b>  13005100  Grade level: 10 - 12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> <i>NCCER Core Curriculum E-Text, Pearson</i>  <u>Prerequisite(s):</u> Principles of Construction  <u>Offered only at:</u> <i>Diamond Hill-Jarvis, Trimble Tech, and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS CONSTRUCTION TECHNOLOGY I/D AB (CONSTECH AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>ARH00512AB</b>  13005100  Grade level: 10 – 12</p>
<p><u>Instructional Material:</u> <i>NCCER Core Curriculum E-Text, Pearson</i>  <u>Prerequisite(s):</u> Principles of Construction  <u>Offered only at:</u> <i>Diamond Hill-Jarvis, Trimble Technical, and OD Wyatt</i></p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>

<b>CONSTRUCTION TECHNOLOGY II/D AB (CONSTECH2 AB)</b>	<b>AR05202AB</b>
In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills. For safety and liability considerations, limiting course enrollment to 15 students is recommended.	13005200 Grade level: 11 – 12 HS Credit(s): 2
<i>Instructional Material:</i> NCCER Construction Technology Print and E-Text, Pearson <i>Prerequisite(s):</i> Construction Technology I/d <i>Offered only at:</i> Diamond Hill-Jarvis, Trimble Technical, and OD Wyatt	College Hour(s): NA <b>Tier III</b>
<b>HONORS CONSTRUCTION TECHNOLOGY II/D AB (CONSTECH2 AB/H)</b>	<b>ARH05202AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.	13005200 Grade level: 11 – 12 HS Credit(s): 2
<i>Instructional Material:</i> NCCER Construction Technology Print and E-Text, Pearson <i>Prerequisite(s):</i> Construction Technology I/d <i>Offered only at:</i> Diamond Hill-Jarvis, Trimble Technical, and OD Wyatt	College Hour(s): NA <b>Tier II</b>
<b>PAID PRACTICUM IN CONSTRUCTION TECHNOLOGY/EXTENDED AB (EXPRCT1 AB)</b>	<b>AR05212AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. Students in this course will be challenged with the application of gained knowledge and skills from prior Construction courses. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.	13005255 Grade level: 12 HS Credit(s): 3
<i>Instructional Material:</i> Contact Career and Technical Education Department for related materials <i>Prerequisite(s):</i> Construction Technology II/d <i>Offered only at:</i> Diamond Hill-Jarvis, Trimble Technical, and OD Wyatt	College Hour(s): NA <b>Tier III</b>
<b>HONORS PAID PRACTICUM IN CONSTRUCTION TECHNOLOGY/EXTENDED AB (EXPRCT1 AB/H)</b>	<b>ARH05212AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.	13005255 Grade level: 12 HS Credit(s): 3
<i>Instructional Material:</i> Contact Career and Technical Education Department for related materials <i>Prerequisite(s):</i> Construction Technology II/d <i>Offered only at:</i> Diamond Hill-Jarvis, Trimble Technical, and OD Wyatt	College Hour(s): NA <b>Tier II</b>
<b>UNPAID PRACTICUM IN CONSTRUCTION TECHNOLOGY/D AB (PRACCONS AB)</b>	<b>AR06202AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. Students in this course will be challenged with the application of gained knowledge and skills from prior Construction courses. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.	130052050 Grade level: 12 HS Credit(s): 2
<i>Instructional Material:</i> Contact Career and Technical Education Department for related materials <i>Prerequisite(s):</i> Construction Technology II/d <i>Offered only at:</i> Diamond Hill-Jarvis, Trimble Technical, and OD Wyatt	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID PRACTICUM IN CONSTRUCTION TECHNOLOGY/D AB (PRACCONS AB/H)</b>	<b>ARH06202AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.	130052050 Grade level: 12 HS Credit(s): 2
<i>Instructional Material:</i> Contact Career and Technical Education Department for related materials <i>Prerequisite(s):</i> Construction Technology II/d <i>Offered only at:</i> Diamond Hill-Jarvis, Trimble Tech, and OD Wyatt	College Hour(s): NA <b>Tier II</b>
<b>ELECTRICAL TECHNOLOGY I AB (ELECTEC AB)</b>	<b>AR05602AB</b>
In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.	13005600 Grade level: 10 - 11 HS Credit(s): 1

<p><u>Instructional Material</u>: NCCER Electrical Level 1 Print and E-Text, Pearson  <u>Prerequisite(s)</u>: Principles of Construction  Offered only at: Trimble Tech</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ELECTRICAL TECHNOLOGY I AB (ELECTEC AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>ARH05602AB</b>  13005600  Grade level: 10 - 11</p>
<p><u>Instructional Material</u>: NCCER Electrical Level 1 Print and E-Text, Pearson  <u>Prerequisite(s)</u>: Principles of Construction  Offered only at: Trimble Tech</p>	<p>HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>ELECTRICAL TECHNOLOGY II/D AB (ELECTECH2 AB)</b></p> <p>In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.</p>	<p><b>AR05702AB</b>  13005700  Grade level: 11 - 12  HS Credit(s): 2</p>
<p><u>Instructional Material</u>: NCCER Electrical Level 2 Print and E-Text, Pearson  <u>Prerequisite(s)</u>: Electrical Technology I  Offered only at: Trimble Tech</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ELECTRICAL TECHNOLOGY II/D AB (ELECTECH2 AB/H)</b></p> <p>In In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>ARH05702AB</b>  13005700  Grade level: 11 - 12</p>
<p><u>Instructional Material</u>: NCCER Electrical Level 2 Print and E-Text, Pearson  <u>Prerequisite(s)</u>: Electrical Technology I  Offered only at: Trimble Tech</p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN CONSTRUCTION TECHNOLOGY: ELECTRICAL/D AB (PRACCT ELE AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. In this course, students will be challenged with the application of gained knowledge and skills from prior Construction courses. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p>	<p><b>AR05700AB</b>  13005250  Grade level: 12  HS Credit(s): 2</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education Department for related materials  <u>Prerequisite(s)</u>: Electrical Technology II/d  Offered only at: Trimble Tech</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN CONSTRUCTION TECHNOLOGY: ELECTRICAL/D AB (PRACCT ELE AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>ARH05700AB</b>  13005250  Grade level: 12</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education Department for related materials  <u>Prerequisite(s)</u>: Electrical Technology II/d  Offered only at: Trimble Tech</p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PAID PRACTICUM IN CONSTRUCTION TECHNOLOGY: ELECTRICAL/EXTENDED AB (EXPRCT1 ELE AB)</b></p> <p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. Practicum in Construction Technology, students will be challenged with the application of gained knowledge and skills from prior Construction courses. A student must be a minimum age of 16 and hold a valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average 30 hours across two weeks) at an approved site within 10 days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>AR05712AB</b>  13005255  Grade level: 12  HS Credit(s): 3</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education Department for related materials  <u>Prerequisite(s)</u>: Electrical Technology II/d  Offered only at: Trimble Tech</p>	<p>College Hour(s): NA  <b>Tier III</b></p>

<b>HONORS PAID PRACTICUM IN CONSTRUCTION TECHNOLOGY: ELECTRICAL/EXTENDED AB (EXPRCT1 ELE AB/H)</b>	<b>ARH05712AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.	13005255 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Electrical Technology II/d <i>Offered only at: Trimble Tech</i>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701121 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701141 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701122 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b>	<b>CP01402AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701132 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>



## **Arts, Audio Visual Technology, and Communication Arts**

### **Graphic Design and Interactive Media:**

**Graphic Design and Illustration**

**Commercial Photography**

**Fashion Design**

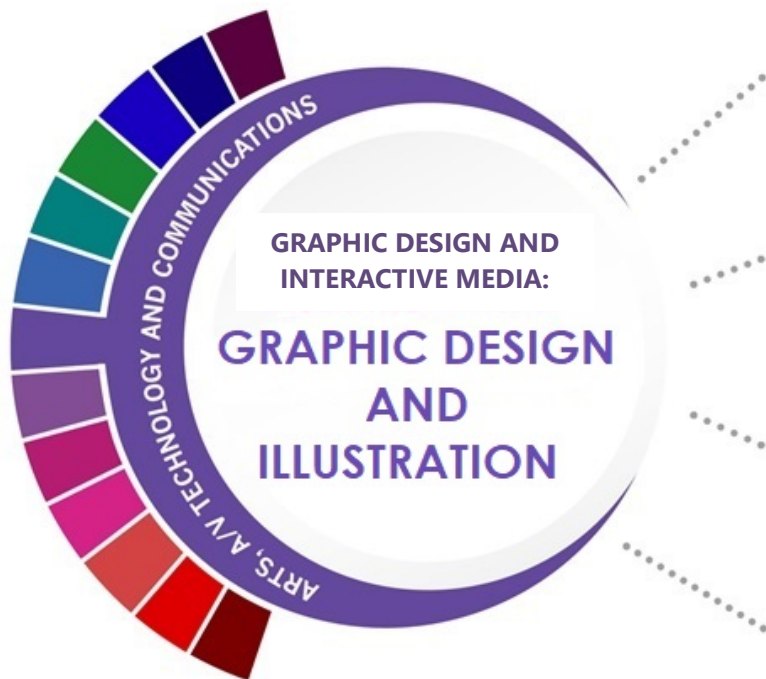
**Animation**

**Digital Gaming**

### **Digital Communications**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.





**Courses**

<b>9th</b>	<b>Principles of Arts, A/V Technology, and Communications:</b> AV08202 AB OR AVH08202 AB
<b>10th</b>	<b>Graphic Design and Illustration I<sup>1</sup>:</b> AV08802 AB OR AVH08802 AB
<b>11th</b>	<b>Graphic Design and Illustration II<sup>3</sup>:</b> AV08810 AB OR AVH08810 AB OR <b>Graphic Design and Illustration II/d<sup>2</sup></b> AV08902L AB OR AVH08902L AB
<b>12th</b>	<b>Unpaid Practicum in Graphic Design and Illustration/d:</b> AV09002 AB OR AVH09002 AB OR <b>Paid Practicum in Graphic Design and Illustration:</b> AV09012AB OR AVH09012AB OR <b>Career Preparation for Programs of Study:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Digital Media:** IT27802 AB OR ITH27802 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Adobe Certified Professional – Photoshop<sup>1</sup>; Adobe Certified Professional – InDesign<sup>2</sup>
- Not counted towards Performance Acknowledgment: N/A

**Available at:**

- |                          |                    |                  |                                       |
|--------------------------|--------------------|------------------|---------------------------------------|
| • Arlington Heights HS   | • Dunbar HS        | • Paschal HS     | • Western Hills HS                    |
| • Benbrook HS            | • Eastern Hills HS | • Polytechnic HS | • Young Women's Leadership Academy HS |
| • Carter-Riverside HS    | • North Side HS    | • South Hills HS |                                       |
| • Diamond Hill-Jarvis HS | • OD Wyatt HS      | • Southwest HS   |                                       |

The Design and Multimedia Arts program of study has 5 sub pathways. It explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into 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.

The Arts, A/V Technology and Communications (AAVTC) Career Cluster® focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.



Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry Endorsement. Revised – July 2020



## Courses

9th

**Principles of Arts, A/V Technology, and Communications:**  
AV08202 AB OR AVH08202 AB

10th

**Commercial Photography I<sup>1</sup>:**  
AV09102 AB OR AVH09102 AB

11th

**Commercial Photography II/Lab<sup>2</sup>:**  
AV09202L AB OR AVH09202L AB

12th

**Unpaid Practicum in Commercial Photography/d:** AV09200 AB OR AVH09200 AB  
OR  
**Paid Practicum in Commercial Photography:**  
AV09210 AB OR AVH09210 AB  
**OR**  
**Career Preparation for Programs of Study:** CPPS 1 AB  
**OR**  
**Extended Career Preparation for Program of Study:** EXCPPS 1 AB

### Enrichment Courses:

- **Digital Media:** IT27802 AB OR ITH27802 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Adobe Certified Professional – Photoshop<sup>1</sup>; Adobe Certified Professional – InDesign<sup>2</sup>
- Not counted towards Performance Acknowledgment: N/A

### Available at:

- Trimble Technical HS (Only for students currently enrolled in this program of study)
- Southwest HS

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Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry Endorsement. Revised – July 2020



**Courses**

<b>9th</b>	<b>Principles of Arts, A/V Technology, and Communications:</b> AV08202 AB OR AVH08202 AB
<b>10th</b>	<b>Fashion Design I:</b> AV09302 AB OR Honors AVH09302 AB
<b>11th</b>	<b>Fashion Design II/Lab<sup>1</sup>:</b> AV09402L AB OR Honors AVH09402L AB
<b>12th</b>	<b>Unpaid Practicum in Entrepreneurship/d:</b> MK34801 AB OR MKH34801AB <b>OR</b> <b>Career Preparation for Programs of Study:</b> CPPS 1 AB <b>OR</b> <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Digital Media:** IT27802 AB OR ITH27802 AB
- **Fashion Marketing:** MK34301 T OR MKH34301 T

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Adobe Certified Professional – Illustrator<sup>1</sup>
- Not counted towards Performance Acknowledgment: N/A

**Available at:**

- Diamond Hill-Jarvis HS
- Trimble Technical HS

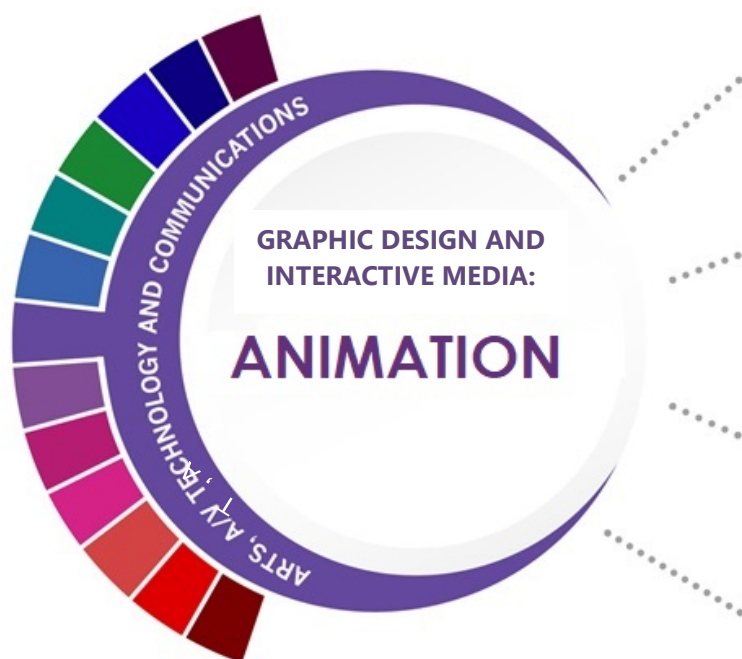
The Design and Multimedia Arts program of study has 5 sub pathways. It explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into 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.



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Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry Endorsement. Revised - July 2020

## Courses



**9th Principles of Arts, A/V Technology, and Communications:**  
AV08202 AB OR AVH08202 AB

**10th Animation I:**  
AV08302 AB OR AVH08302 AB

**11th Animation II<sup>1</sup>:**  
AV08402 AB OR AVH08402 AB

**Unpaid Practicum in Animation/d:**  
AV08450 AB OR AVH08450AB  
**OR**  
**12th Career Preparation for Programs of Study:**  
CPPS 1 AB  
**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

### Enrichment Courses:

- **Digital Media:** IT27802 AB OR ITH27802 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Adobe Certified Professional - After Effects<sup>1</sup>
- Not counted towards Performance Acknowledgment: N/A

### Available at:

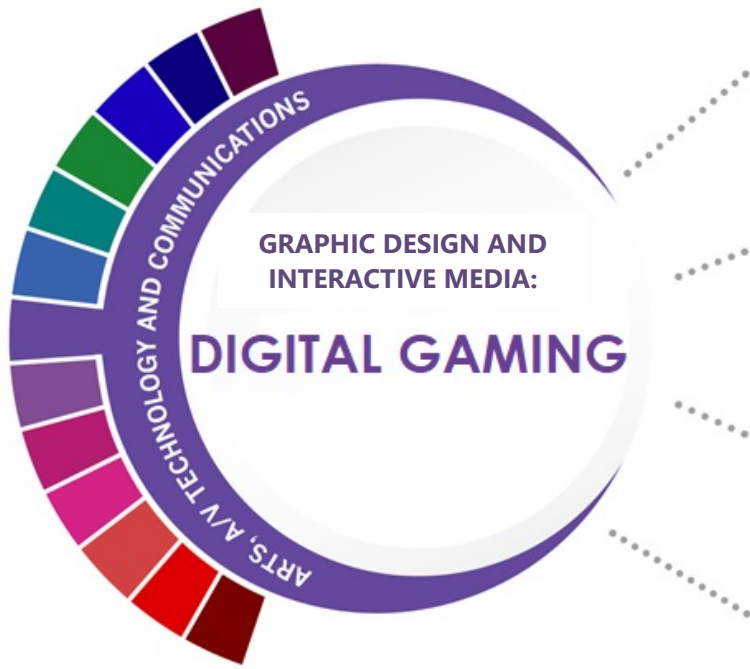
- North Side HS
- OD Wyatt HS
- Polytechnic HS
- South Hills HS
- Trimble Technical HS
- Western Hills HS

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Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry Endorsement. Revised – July 2020



## Courses

**9th Principles of Arts, A/V Technology, and Communications:**  
AV08202 AB OR AVH08202 AB

**10th Video Game Design<sup>1</sup>:**  
AV00992 AB OR AVH00992 AB  
**AND**  
**Video Game Programming:**  
AV00994 AB OR AVH00994 AB

**11th Advanced Video Game Programming<sup>1</sup>:**  
AV00995 AB OR AVH00995 AB

**12th Unpaid Practicum in Animation/d:**  
AV08450 AB OR AVH08450AB  
**OR**  
**Career Preparation for Programs of Study:**  
CPPS 1 AB  
**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB  
**OR**  
**Independent Study in Technology Applications:**  
2144AB OR 2146AB OR 2148AB

### Enrichment Courses:

- **Animation I:** AV08302 AB OR AVH08302 AB
- **Digital Media:** IT27802 AB OR ITH27802 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Effects CodeHS Python Level 1 Certification<sup>1</sup>
- Not counted towards Performance Acknowledgment: N/A

### Available at:

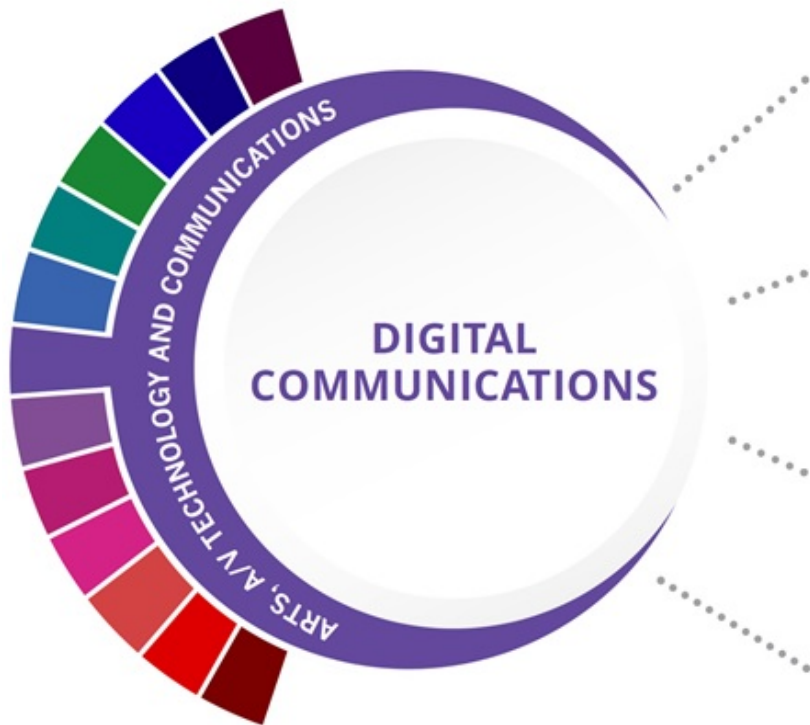
- South Hills HS

The Digital Communications program of study explores the occupations 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. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.



The Arts, A/V Technology and Communications (AAVTC) Career Cluster® focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry Endorsement. Revised - July 2020



**Courses**

**9th Principles of Arts, A/V Technology, and Communications:**  
AV08202 AB OR AVH08202 AB

**10th Audio/Video Production I:**  
AV08502 AB OR AVH08502 AB

**11th Audio Video Production II<sup>1</sup>:**  
AV08602 AB OR AVH08602 AB

**Unpaid Practicum of Audio/Video Production/d:**  
AV08702 AB OR AVH08702 AB  
**OR**  
**Career Preparation for Programs of Study: CPPS 1 AB**  
**OR**  
**Extended Career Preparation for Programs of Study: EXCPPS 1 AB**  
**OR**  
**Independent Study in Technology Applications:**  
2144AB OR 2146AB OR 2148AB

**Enrichment Courses:**

- **Digital Audio Technology I:** AV00882 AB OR AVH00882 AB
- **Digital Media:** IT27802 AB OR ITH27802 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Adobe Certified Professional - Premier Pro<sup>1</sup>
- Not counted towards Performance Acknowledgment: N/A

**Available at:**

- Polytechnic HS
- Southwest HS
- Trimble Technical HS
- Western Hills HS

The Digital Communications program of study explores the occupations 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. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.

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Successful completion of the Digital Communications program of study will fulfill requirements of a Business and Industry Endorsement. Revised - July 202

## COURSE DESCRIPTIONS FOR ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS CLASSES

<b>PRINCIPLES OF ARTS, AUDIO VIDEO TECHNOLOGY AND COMMUNICATIONS AB (PRINAAVTC AB)</b>	<b>AV08202AB</b>
<p>The Arts, Audio Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer applications, a strong academic foundation, and a proficiency in oral and written communications in this course, students are introduced to skills and a basic understanding of career opportunities and training requirements in the areas of audio video production, fashion design, printing and imaging technology, and graphic design and illustration. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.</p>	<p>13008200 Grade level: 9 - 10 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Principles of Arts, Audio and Video Technology and Communication Texas Student, Pearson Education, Inc.</i> <u>Prerequisite(s):</u> None. This course is a required prerequisite for ALL other courses in the Arts and AV cluster. <u>Offered at:</u> All Tier 1 comprehensive high schools</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>HONORS PRINCIPLES OF ARTS, AUDIO VIDEO TECHNOLOGY, AND COMMUNICATIONS AB (PRINAAVTC AB/H)</b>	<b>AVH08202AB</b>
<p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p>13008200 Grade level: 9 - 10</p>
<p><u>Instructional Material:</u> <i>Principles of Arts, Audio and Video Technology and Communication Texas Student, Pearson Education, Inc.</i> <u>Prerequisite(s):</u> None. This course is a required prerequisite for ALL other courses in the Arts and AV cluster. <u>Offered at:</u> All Tier 1 comprehensive high schools</p>	<p>HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<b>AUDIO VIDEO PRODUCTION I AB (AVPROD AB)</b>	<b>AV08502AB</b>
<p>Careers in audio and video technology and film production span all aspects of the audio video communications industry. Students will be expected to develop an understanding of the industry as they focus on pre-production, production, and post-production audio and video activities. In this double-period course, students develop general video production skills necessary for successful employment in broadcasting video production. Students learn to operate video cameras, edit linear and nonlinear video, use audio techniques, control and monitor equipment, create media graphics, generate special effects, provide lighting, design sets, write scripts, and direct.</p>	<p>13008500 Grade level: 10 - 11 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Learning Audio/Video Production, 2017 Ed.</i> Pearson Publishing <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications <u>Offered only at:</u> Polytechnic, Southwest, Trimble Tech and Western Hills</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>HONORS AUDIO VIDEO PRODUCTION I AB (AVPROD AB/H)</b>	<b>AVH08502AB</b>
<p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p>13008500 Grade level: 10 – 12</p>
<p><u>Instructional Material:</u> <i>Learning Audio/Video Production, 2017 Ed.</i>, Pearson Publishing <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications <u>Offered only at:</u> Polytechnic, Southwest, Trimble Tech and Western Hills</p>	<p>HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<b>AUDIO VIDEO PRODUCTION I AB/ AUDIO/VIDEO PRODUCTION I LAB/D (AVPLAB1 AB)</b>	<b>AV08512AB</b>
<p>Careers in audio and video technology and film production span all aspects of the audio video communications industry. Students will be expected to develop an understanding of the industry as they focus on pre-production, production, and post-production audio and video activities. In this double-period course, students develop general video production skills necessary for successful employment in broadcasting video production. Students learn to operate video cameras, edit linear and nonlinear video, use audio techniques, control and monitor equipment, create media graphics, generate special effects, provide lighting, design sets, write scripts, and direct.</p>	<p>13008510 Grade level: 10 - 11 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> <i>Learning Audio/Video Production, 2017 Ed.</i> Pearson Publishing <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications <u>Offered only at:</u> Southwest</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>HONORS AUDIO VIDEO PRODUCTION I AB/ AUDIO/VIDEO PRODUCTION I LAB/D (AVPLAB1 AB/H)</b>	<b>AVH08512AB</b>
<p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p>13008510 Grade level: 10 – 12</p>
<p><u>Instructional Material:</u> <i>Learning Audio/Video Production, 2017 Ed.</i>, Pearson Publishing <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications <u>Offered only at:</u> Southwest</p>	<p>HS Credit(s): 2 College Hour(s): NA <b>Tier II</b></p>
<b>AUDIO VIDEO PRODUCTION II AB (AVPROD2 AB)</b>	<b>AV08602AB</b>
<p>In Audio Video Production II, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced format including both audio and video. The students will begin a portfolio of their video and audio production projects. This course includes a co-requisite lab, which affords necessary time devoted specifically to the production and post-production process.</p>	<p>13008600 Grade level: 11 - 12 HS Credit(s): 1</p>

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Audio Video Production I  <u>Offered only at:</u> Polytechnic, Trimble Tech and Western Hills</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS AUDIO VIDEO PRODUCTION II AB (AVPROD2 AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>AVH08602AB</b>  13008600  Grade level: 11 - 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Audio Video Production I  <u>Offered only at:</u> Polytechnic, Trimble Tech, and Western Hills</p>	<p>HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>AUDIO VIDEO PRODUCTION II AB/ AUDIO/VIDEO PRODUCTION II LAB/D (AVPLAB2 AB)</b></p> <p>In Audio Video Production II, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced format including both audio and video. The students will begin a portfolio of their video and audio production projects. This course includes a co-requisite lab, which affords necessary time devoted specifically to the production and post-production process.</p>	<p><b>AV08602LAB</b>  13008610  Grade level: 11 - 12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Audio Video Production I  <u>Offered only at:</u> Southwest</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS AUDIO VIDEO PRODUCTION II AB/ AUDIO VIDEO PRODUCTION II LAB/D (AVPRO2L AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>AVH08602LAB</b>  13008610  Grade level: 11 - 12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Audio Video Production I  <u>Offered only at:</u> Southwest</p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN AUDIO VIDEO PRODUCTION/D AB (PRACAVT AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. In this course, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Some students may be selected to participate in an unpaid externship with the FWISD instructional radio and television department to explore advanced techniques and theories in all areas of the media industry. Students will build a professional portfolio demonstrating skills in advanced video production, production of narrative media, advanced video screenwriting, production, and TV and radio news production.</p>	<p><b>AV08702AB</b>  13008700  Grade level: 12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Audio Video Production I and II  <u>Offered only at:</u> Polytechnic, Southwest, Trimble Tech and Western Hills</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN AUDIO VIDEO PRODUCTION/D AB (PRACAVT AB/H)</b></p> <p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.</p>	<p><b>AVH08702AB</b>  13008700  Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Audio Video Production I and II  <u>Offered only at:</u> Polytechnic, Southwest, Trimble Tech and Western Hills</p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>DIGITAL AUDIO TECHNOLOGY I AB (DIGAUD AB)</b></p> <p>Digital Audio Technology I was designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.</p>	<p><b>AV00882AB</b>  13009950  Grade level: 10 - 11  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Learning Audio/Video Production, 2017 Ed., Pearson Publishing  <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications  <u>Offered only at:</u> Polytechnic and Western Hills</p>	<p>College Hour(s): NA  <b>Tier III</b></p>



<b>HONORS DIGITAL AUDIO TECHNOLOGY I AB (DIGAUD AB/H)</b>	<b>AVH00882AB</b>
In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study.	13009950 Grade level: 10 – 11
<u>Instructional Material:</u> <i>Learning Audio/Video Production, 2017 Ed.</i> , Pearson Publishing	HS Credit(s): 1
<u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications	College Hour(s): NA
<i>Offered only at: Polytechnic and Western Hills</i>	<b>Tier II</b>
<b>GRAPHIC DESIGN AND ILLUSTRATION I AB (GRAPHDI AB)</b>	<b>AV08802AB</b>
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. In this course, students will receive job-specific training for entry-level employment in advertising design careers. Instruction emphasizes creation and design of graphic materials for use as illustration, advertising, and computer graphics. Students will employ a creative design process to create original two- or three- dimensional projects; and apply art elements and principles to photographic works and multimedia applications.	13008800 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> <i>Communicating Through Graphic Design</i> , Davis Publications, Inc.	College Hour(s): NA
<u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications	<b>Tier III</b>
<i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i>	
<b>HONORS GRAPHIC DESIGN AND ILLUSTRATION I AB (GRAPHDI AB/H)</b>	<b>AVH08802AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13008800 Grade level: 10 – 11
<u>Instructional Material:</u> <i>Communicating Through Graphic Design</i> , Davis Publications, Inc.	HS Credit(s): 1
<u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications	College Hour(s): NA
<i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i>	<b>Tier II</b>
<b>GRAPHIC DESIGN AND ILLUSTRATION FOR YEARBOOK I AB (GRAPHDI-YB 1AB)</b>	<b>AV08812AB</b>
Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art, design, and written/visual communications. Students will communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications for the campus yearbook and carefully examine their copy for clarity, engaging language, and the correct use of the conventions and mechanics. Students are expected to become analytical consumers of media and technology to enhance their skills. Students will also apply publishing ethics and standards to the yearbook. Published works are used as tools for learning as students create, clarify, critique, write, and produce effective work. Students will refine and enhance their skills, research, and plan, and organize in order to successfully complete yearbook projects.	13008800 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> <i>Communicating Through Graphic Design</i> , Davis Publications, Inc.	College Hour(s): NA
<u>Prerequisite(s):</u> None	<b>Tier III</b>
<b>HONORS GRAPHIC DESIGN AND ILLUSTRATION FOR YEARBOOK I AB (GRAPHDI-YB 1AB/H)</b>	<b>AVH08812AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13008800 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> <i>Communicating Through Graphic Design</i> , Davis Publications, Inc.	College Hour(s): NA
<u>Prerequisite(s):</u> None	<b>Tier II</b>
<b>GRAPHIC DESIGN AND ILLUSTRATION II AB (GRAPHDI2 AB)</b>	<b>AV08810AB</b>
Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.	13008900 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Communicating Through Graphic</i> , Davis Publications, Inc.	College Hour(s): NA
<u>Prerequisite(s):</u> Graphic Design and Illustration I	<b>Tier III</b>
<i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i>	
<b>HONORS GRAPHIC DESIGN AND ILLUSTRATION II AB (GRAPHDI2 AB)</b>	<b>AVH08810AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13008900 Grade level: 11 – 12
<u>Instructional Material:</u> <i>Communicating Through Graphic</i> , Davis Publications, Inc.	HS Credit(s): 1
<u>Prerequisite(s):</u> Graphic Design and Illustration I	College Hour(s): NA
<i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i>	<b>Tier II</b>

<p><b>GRAPHIC DESIGN AND ILLUSTRATION FOR YEARBOOK II AB (GRAPHDI-YB 2AB)</b></p> <p>Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills. Students will communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications for the campus yearbook and carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics. Students are expected to become analytical consumers of media and technology to enhance their skills. Students will also apply publishing ethics and standards to the yearbook. Published works are used as tools for learning as students create, clarify, critique, write, and produce effective work. Students will refine and enhance their skills, research, and plan, and organize in order to successfully complete yearbook projects.</p>	<p><b>AV08814AB</b></p> <p>13008900 Grade level: 11 - 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Communicating Through Graphic</i>, Davis Publications, Inc. <u>Prerequisite(s):</u> Graphic Design and Illustration I</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS GRAPHIC DESIGN AND ILLUSTRATION FOR YEARBOOK II AB (GRAPHDI-YB 2AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AVH08814AB</b></p> <p>13008900 Grade level: 11 - 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Communicating Through Graphic</i>, Davis Publications, Inc. <u>Prerequisite(s):</u> Graphic Design and Illustration I</p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION/D AB (PRACCGRADI AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. In this course, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. Students will build a professional portfolio demonstrating skills in Graphic Design and Illustration.</p>	<p><b>AV09002AB</b></p> <p>13009000 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i> <u>Prerequisite(s):</u> Graphic Design and Illustration II and Graphic Design and Illustration Lab II <i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION/D AB (PRACCGRADI AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AVH09002AB</b></p> <p>13009000 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Graphic Design and Illustration I and II <i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>PAID PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION AB (PRACCGRAD2 AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. In this course, students will be challenged with the application of knowledge and skills from Graphic Design and Illustration at paid employment in the graphic design field. The co-requisite extension is included in the Practicum and is designed to give students supervised practical application of previously studied knowledge and skills. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>AV09012AB</b></p> <p>13009000 Grade level: 11 - 12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Graphic Design and Illustration II <i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and YWLA</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS PAID PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION AB (PRACCGRAD2 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AVH09012AB</b></p> <p>13009000 Grade level: 11 - 12</p>

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Graphic Design and Illustration II</p> <p><i>Offered only at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and Young Women's Leadership Academy</i></p>	<p>HS Credit(s): 3</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>COMMERCIAL PHOTOGRAPHY I AB (COMMPHOT AB)</b></p> <p>Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs. Emphasis is on the basics of photography, commercial composition, print-making, and finishing. In this course, students will analyze principles of commercial photography such as working with clients, interpreting client instructions, developing production schedules, and delivering products in a competitive market. They will produce a variety of photographs using current, industry-standard production processes; and evaluate photographs using principles of art, commercial photography standards, and critical-thinking skills.</p>	<p><b>AV09102AB</b></p> <p>13009100</p> <p>Grade level: 10 - 11</p> <p>HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Photography: Portfolio to Profession</i>, Goodheart-Willcox Co.</p> <p><u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS COMMERCIAL PHOTOGRAPHY I AB (COMMPHOT AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AVH09102AB</b></p> <p>13009100</p> <p>Grade level: 10 - 11</p>
<p><u>Instructional Material:</u> <i>Photography: Portfolio to Profession</i>, Goodheart-Willcox Co.</p> <p><u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>COMMERCIAL PHOTOGRAPHY II/COMMERCIAL PHOTOGRAPHY II LAB/D AB (CPHLAB2 AB)</b></p> <p>Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, students in this advanced course will develop additional technical knowledge and skills needed for success in the field of commercial photography. They will also be expected to develop an understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Students in this advanced class will work toward Adobe certifications that will provide a performance acknowledgement for their Business and Industry Endorsement. This course includes a co- requisite lab, which affords necessary time devoted to master the content in Commercial Photography II. Each student will maintain a career portfolio to document work experiences, licenses, certifications, and work samples.</p>	<p><b>AV09202LAB</b></p> <p>13009210</p> <p>Grade level: 11 - 12</p> <p>HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Commercial Photography I</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS COMMERCIAL PHOTOGRAPHY II/COMMERCIAL PHOTOGRAPHY II LAB/D AB (CPHLAB2 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AVH09202LAB</b></p> <p>13009210</p> <p>Grade level: 11 - 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Commercial Photography I</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>HS Credit(s): 2</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN COMMERCIAL PHOTOGRAPY/D AB (PRACCPH1 AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In This course, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Commercial Photography.</p>	<p><b>AV09200AB</b></p> <p>13009250</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Commercial Photography II or Commercial Photography Lab II</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN COMMERCIAL PHOTOGRAPY/D AB (PRACCPH1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>AVH09200AB</b></p> <p>13009250</p> <p>Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Commercial Photography II or Commercial Photography Lab II</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>HS Credit(s): 2</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>

<b>PAID PRACTICUM IN COMMERCIAL PHOTOGRAPY/EXTENDED AB (EXPRCPH1 AB)</b>	<b>AV09210AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. In this course, students will be challenged with the application of knowledge and skills from Commercial Photography at paid employment in the photography field. The co-requisite extension is included in the Practicum and is designed to give students supervised practical application of previously studied knowledge and skills. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.	13009255 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Commercial Photography II or Commercial Photography Lab II <i>Offered only at: Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS PAID PRACTICUM IN COMMERCIAL PHOTOGRAPY/EXTENDED AB (EXPRCPH1 AB/H)</b>	<b>AVH09210AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13009255 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Commercial Photography II or Commercial Photography Lab II <i>Offered only at: Trimble Tech</i>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>FASHION DESIGN I AB (FASHDSN AB)</b>	<b>AV09302AB</b>
Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Video Technology, and Communications career cluster, students will be expected to develop an understanding of fashion and the textile and apparel industries. Students learn to manage a clothing budget, to construct, repair and alter apparel, to plan and maintain an appropriate wardrobe, and to identify quality apparel construction.	13009300 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS FASHION DESIGN I AB (FASHDSN AB/H)</b>	<b>AVH09302AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13009300 Grade level: 10 - 11
<u>Instructional Material:</u> CEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Arts, A/V Technology, and Communications <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>FASHION DESIGN II/ FASHION DESIGN II LAB/D AB (FASLAB2 AB)</b>	<b>AV09402LAB</b>
Careers in fashion span all aspects of the textile and apparel industries. Students will be expected to develop an advanced understanding of fashion, with emphasis on design and production. In this double-period course, students will examine textile design and production, and apparel design practices and influences. Topics include fibers, fabrics, textile and apparel manufacturing systems, product marketing techniques, technology applications, and the international impact of textiles and apparel industries, federal regulations, and career options. Students will create a portfolio of fashion designs that include fashion figure drawing; application of design elements and principles to create fashion drawings; demonstration of the properties and characteristics of color; original computer-aided fashion designs; and examples of appropriate textiles to use in specific designs. This course includes a co-requisite lab, which affords necessary time devoted to master the content in Fashion Design II.	13009410 Grade level: 11 - 12 HS Credit(s): 2
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Fashion Design I <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS FASHION DESIGN II/ FASHION DESIGN II LAB/D AB (FASLAB2 AB/H)</b>	<b>AVH09402LAB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13009410 Grade level: 11 - 12
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Fashion Design I <i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>

<p><b>UNPAID PRACTICUM IN ENTREPRENEURSHIP AB (PRACENTRE AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. In addition to developing advanced technical knowledge and skills needed for success in the career fields of interest, students will be expected to develop an increasing understanding of the industry with a focus on applying management, finances, product development, and other entrepreneurship concepts in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Entrepreneurship.</p>	<p><b>MK34801AB</b></p> <p>13011111</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p>
<p>Instructional Material: Contact Career and Technical Education Department for related materials.</p> <p>Prerequisite(s): Fashion Design II</p> <p><i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN ENTREPRENEURSHIP AB (PRACENTRE AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>MKH34801AB</b></p> <p>13011111</p> <p>Grade level: 12</p>
<p>Instructional Material: Contact Career and Technical Education Department for related materials.</p> <p>Prerequisite(s): Fashion Design II</p> <p><i>Offered only at: Diamond Hill-Jarvis and Trimble Tech</i></p>	<p>HS Credit(s): 2</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>FASHION MARKETING T (FASHMKTG T)</b></p> <p>This specialized course is for students who have a career interest in apparel, fashion, and/or accessory marketing. Instruction will cover all aspects of the industry. Students in this course will focus on each of the functions of marketing and how they relate to the fashion industry. Students will be able to apply these principles and concepts in marketing in their careers and in everyday life. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities in this field.</p>	<p><b>MK34301T</b></p> <p>13034300</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 0.5</p>
<p>Instructional Material: <i>JCEV Business, Marketing, Finance, IT &amp; Media Site, CEV Multimedia Ltd.</i></p> <p>Prerequisite(s): Principles of Business, Marketing, and Finance or Fashion Design I</p> <p><i>Course can only be taught by a marketing or family consumer science certified teacher.</i></p> <p><i>Offered only at: Arlington Heights, Diamond Hill-Jarvis, Paschal and Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS FASHION MARKETING T (FASHMKTG T/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>MKH34301T</b></p> <p>13034300</p> <p>Grade level: 11 - 12</p>
<p>Instructional Material: <i>JCEV Business, Marketing, Finance, IT &amp; Media Site, CEV Multimedia Ltd.</i></p> <p>Prerequisite(s): Principles of Business, Marketing, and Finance or Fashion Design I</p> <p><i>Offered only at: Arlington Heights, Diamond Hill-Jarvis, Paschal and Trimble Tech</i></p>	<p>HS Credit(s): 0.5</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DIGITAL MEDIA AB (DIMEDIA AB)</b></p> <p>Through the study of Digital Media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. This course will prepare students to prepare to take several Adobe certification exams in areas such as Photoshop, Dreamweaver, InDesign, or Illustrator. These certifications will provide a performance acknowledgement for the Business and Industry Endorsement.</p>	<p><b>IT27802AB</b></p> <p>13027800</p> <p>Grade level: 10 - 11</p> <p>HS Credit(s): 1</p>
<p>Instructional Material: <i>Digital Media – Concepts and Applications 4th Edition 2017; Cengage Learning</i></p> <p>Prerequisite(s): Principles of Arts and A/V or Business Information Management I</p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS DIGITAL MEDIA AB (DIMEDIA AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>ITH27802AB</b></p> <p>13027800</p> <p>Grade level: 10 – 11</p> <p>HS Credit(s): 1</p>
<p>Instructional Material: <i>Digital Media – Concepts and Applications 4th Edition 2017; Cengage Learning</i></p> <p>Prerequisite(s): Principles of Arts and A/V or Business Information Management I</p>	<p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>ANIMATION I AB (ANIMAT1 AB)</b></p> <p>Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for creating motion graphics, students will be expected to develop an understanding of the history and techniques of the animation industry. This course includes a co-requisite lab, which affords necessary time devoted to master the content in Animation I through projects and take the Adobe certification to become an Adobe Certified Professional in Animate. This industry certification provides a performance acknowledgement for the Business and Industry Endorsement.</p>	<p><b>AV08302AB</b></p> <p>13008300</p> <p>Grade level: 11 - 12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p>Instructional Material: Contact Career and Technical Education Department for related materials</p> <p>Prerequisite(s): Principles of Arts and AV and Digital Media, Graphic Design and Illustration I, or Video Game Design</p>	

<i>Offered only at: North Side, OD Wyatt, Polytechnic, Trimble Tech, and Western Hills</i>	
<b>HONORS ANIMATION I AB (ANIMAT1 AB/H)</b>	<b>AVH08302AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13008300 Grade level: 11 - 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> Principles of Arts and AV and Digital Media, Graphic Design and Illustration I, or Video Game Design	College Hour(s): NA
<i>Offered only at: North Side, OD Wyatt, Polytechnic, Trimble Tech, and Western Hills</i>	<b>Tier II</b>
<b>ANIMATION II AB (ANIMAT2 AB)</b>	<b>AV08402AB</b>
Careers in animation span all aspects of motion graphics. Within this context, students will be expected to create two- and three-dimensional animations. The instruction in this class also assists students seeking careers in the animation industry. This course includes a co-requisite lab, which affords necessary time devoted to master the content in Animation II through projects and take the Adobe certification to become an Adobe Certified Professional in Animate. This industry certification provides a performance acknowledgement for the Business and Industry Endorsement.	13008400 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> Animation I and Animation I Lab	<b>Tier II</b>
<i>Offered only at: North Side, OD Wyatt, Polytechnic, Trimble Tech, and Western Hills</i>	
<b>HONORS ANIMATION II (ANIMAT2 AB/H)</b>	<b>AVH08402AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13008400 Grade level: 11-12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> Animation I and Animation I Lab	College Hour(s): NA
<i>Offered only at: North Side, OD Wyatt, Polytechnic, Trimble Tech, and Western Hills</i>	<b>Tier II</b>
<b>UNPAID PRACTICUM IN ANIMATION AB (PRACANI1 AB)</b>	<b>AV08450AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. In this course, students develop advanced technical knowledge and skills needed for success in the Arts, Audio/Video industry. Students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Animation.	13008450 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> Animation I	<b>Tier III</b>
<i>Offered only at: Arlington Heights, Northside, OD Wyatt, South Hills, and Trimble Tech</i>	
<b>HONORS UNPAID PRACTICUM IN ANIMATION AB/H (PRACANI1 AB/H)</b>	<b>AVH08450AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13008450 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	HS Credit(s): 2
<u>Prerequisite(s):</u> Animation I	College Hour(s): NA
<i>Offered only at: Arlington Heights, Northside, OD Wyatt, South Hills, and Trimble Tech</i>	<b>Tier II</b>
<b>VIDEO GAME DESIGN AB (VIDEOGD AB)</b>	<b>AV00992AB</b>
In Video Game Design, the student will be provided the opportunity to design, program, and create a functional video game. The course will introduce basic programming language and skills that are essential to developing a video game. Topics covered are math, physics, design, and computer programming. This course will instruct students on how to apply the design or problem-solving process in order to create a real-world solution and learn the basics of programming structure and functions.	13009970 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> <i>Video Game Design Foundations, Goodheart-Willcox Co.,</i>	College Hour(s): NA
<u>Prerequisite(s):</u> Principles of Arts, Audio Video Technology and Communications	<b>Tier III</b>
<i>Offered only at: South Hills</i>	
<b>HONORS VIDEO GAME DESIGN AB (VIDEOGD AB/H)</b>	<b>AVH00992AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13009970 Grade level: 10 – 11
<u>Instructional Material:</u> <i>Video Game Design Foundations, Goodheart-Willcox Co.</i>	HS Credit(s): 1
<u>Prerequisite(s):</u> Principles of Arts, Audio Video Technology and Communications	College Hour(s): NA
<i>Offered only at: South Hills</i>	<b>Tier II</b>

<b>VIDEO GAME PROGRAMMING AB (VIDEOPR AB)</b>	<b>AV00994AB</b>
Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.	N1300994 Grade level: 10-11 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: South Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS VIDEO GAME PROGRAMMING AB (VIDEOPR AB)-</b>	<b>AVH00994AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1300994 Grade level: 10-11 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: South Hills</i>	
<b>ADVANCED VIDEO GAME PROGRAMMING AB (ADVIDEOGP AB)</b>	<b>AV00995AB</b>
Advanced Video Game Programming students will be introduced to mobile application design and programming using Java and Eclipse for Android devices. Time will be spent learning basic Java programming and working with Android Studio to develop real working apps. Using Unity as an introduction to 3D game development, students will have exposure to and an understanding of object-oriented programming concepts; game development skill with programs such as Unity; 3D modeling with programs such as Blender; image manipulation with programs such as GIMP; concepts related to the design process; and the ability to communicate and collaborate on group-based projects.	N1300995 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <u>Recommended Prerequisite(s):</u> Video Game Programming <i>Offered only at: South Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ADVANCED VIDEO GAME PROGRAMMING AB (ADVIDEOGP AB/H)</b>	<b>AVH00995AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1300995 Grade level: 11-12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <u>Recommended Prerequisite(s):</u> Video Game Programming <i>Offered only at: South Hills</i>	
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY I AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701121 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701141 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>

CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)	CP001142AB
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701122 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)	CP01402AB
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701132 Grade level: 11-12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>





## **Business, Marketing, and Finance**

**Accounting and Financial Services**

**Business Management**

**Entrepreneurship**

**Marketing and Sales**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

<b>9th</b>	<b>Business Information Management:</b> BA11412 AB OR BAH11412 AB
<b>10th</b>	<b>Accounting I:</b> FN16612 AB OR FNH16612 AB
<b>11th</b>	<b>Accounting II<sup>1</sup>:</b> FN16722 AB OR FNH16722 AB
<b>12th</b>	<b>Paid Practicum in Business Management<sup>2,3</sup>:</b> BA12210 AB OR BAH12210 AB OR
	<b>Unpaid Practicum in Business Management/d<sup>2,3</sup>:</b> BA12202 AB OR BAH12202 AB OR
	<b>Career Preparation for Programs of Study:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Money Matters:** FN16201AB OR FNH16201AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Intuit QuickBooks Certified User (QBCU)<sup>1</sup>, Volunteer Income Tax Assistance/Tax Counseling Certification: Advanced, Basic, or Volunteer for Elderly<sup>2</sup>
- Not counted toward Performance Acknowledgment: OSHA 10-Hour General Industry Certification<sup>3</sup>

**Available at:**

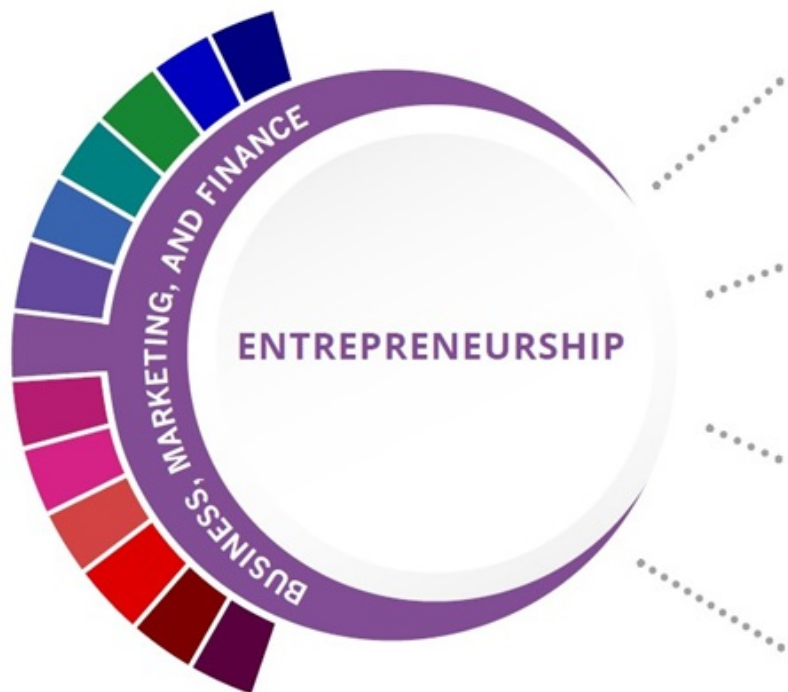
- Paschal HS
- Polytechnic HS

The Accounting and Financial Services program of study teaches CTE concentrators how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others. This program of study will also introduce students to mathematical modeling tools.



The Business, Marketing, and Finance Career Cluster<sup>®</sup> focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Successful completion of the Accounting & Financial Services program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



**Courses**

<b>9th</b>	<b>Business Information Management:</b> BA11412 AB OR BAH11412 AB
<b>10th</b>	<b>Entrepreneurship I*:</b> MK34401 AB OR MKH34401 AB
<b>11th</b>	<b>Entrepreneurship II<sup>1</sup>:</b> MK03423 AB OR MKH03423 AB <b>OR</b> <b>Mobile Application Development*:</b> TA80390 AB OR TAH80390 AB
<b>12th</b>	<b>Paid Practicum in Business Management<sup>2*</sup>:</b> BA12210 AB OR BAH12210 AB <b>OR</b> <b>Unpaid Practicum in Entrepreneurship/d<sup>2*</sup>:</b> MK34801 AB OR MKH34801 AB <b>OR</b> <b>Honors Project-Based Research AB<sup>2*</sup>:</b> CPH01500 AB <b>OR</b> <b>Career Preparation for Programs of Study*:</b> : CPPS 1 AB <b>OR</b> <b>Extended Career Preparation for Program of Study*:</b> EXCPS 1 AB

**Enrichment Courses:**

- **Accounting I:** FN16612AB OR FNH16612AB
- **Money Matters:** FN16201AB OR FNH16201AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Entrepreneurship and Small Business (ESB)<sup>1</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour General Industry Certification<sup>2</sup>

**Available at:**

- Arlington Heights HS
- Carter-Riverside HS
- Diamond-Hill Jarvis HS
- Dunbar HS
- Eastern Hills HS
- North Side HS
- OD Wyatt HS
- I.M. Terrell STEM & VPA Academy -  
\*specific courses identified for campus' POS)
- Paschal HS
- Polytechnic HS
- South Hills HS
- Southwest HS
- Western Hills
- World Languages Institute HS
- Young Men's Leadership Academy HS

The Entrepreneurship program of study teaches CTE concentrators how to plan, direct, and coordinate the management and operations of public or private sector organizations. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, analyze management structures, and plan for the use of materials and human resources.



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.

Successful completion of the Entrepreneurship program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020

## Courses



<b>9th</b>	<b>Principles of Business, Marketing, and Finance:</b> BA11201 AB OR BAH11201 AB
<b>10th</b>	<b>Fashion Marketing T:</b> MK34301 T OR MKH34301 T <b>AND</b> <b>Sports and Entertainment Marketing T:</b> MK34601 T OR MKH34601 T
<b>11th</b>	<b>Social Media Marketing T<sup>1</sup>:</b> MK34901 T OR MKH34901 T <b>AND</b> <b>Advertising T:</b> MK34201 T OR MKH34201
<b>12th</b>	<b>Advanced Marketing/d<sup>2</sup>:</b> MK34700 AB OR MKH34700 AB <b>OR</b> <b>Paid Practicum in Marketing<sup>2</sup>:</b> MK34812 AB OR MKH34812 AB <b>OR</b> <b>Career Preparation for Programs of Study*:</b> CPPS 1 AB <b>OR</b> <b>Extended Career Preparation for Programs* of Study:</b> EXCPPS 1 AB

### Enrichment Courses:

- **Entrepreneurship:** MK34401 AB OR MKH34401 AB
- **Accounting I:** FN16612 AB OR FNH16612 AB
- **Money Matters:** FN16201 AB OR FNH16201 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Stukent Social Media Marketing Certification<sup>1</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour General Industry Certification<sup>2</sup>

### Available at:

- Benbrook HS
- Paschal HS

The Marketing program of study teaches CTE concentrators how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits.



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.

Successful completion of the Marketing and Sales program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



**Courses**

**9th** **Principles of Business, Marketing, and Finance:** BA11201 AB OR BAH11201 AB

**10th** **Social Media Marketing T<sup>1</sup>:**  
MK34901 T OR MKH34901 T  
**AND**  
**Advertising T:**  
MK34201 T OR MKH34201

**11th** **Advanced Marketing/d:**  
MK34700 AB OR MKH34700 AB

**12th** **Unpaid Practicum in Entrepreneurship/d<sup>2</sup>:**  
MK34801 AB OR MKH34801 AB  
**OR**  
**Paid Practicum in Marketing<sup>2</sup>:**  
MK34812 AB OR MKH34812 AB  
**OR**  
**Career Preparation for Programs of Study:** CPPS 1 AB  
**OR**  
**Extended Career Preparation for Program of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- **Entrepreneurship:** MK34401 AB OR MKH34401 AB
- **Sports and Entertainment Marketing T:** MK34601 T OR MKH34601 T
- **Fashion Marketing T:** MK34301 T OR MKH34301 T

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Student Social Media Marketing Certification<sup>1</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour General Industry Certification<sup>2</sup>

**Available at:**

- Trimble Technical High School

The Social Media Marketing program of study teaches CTE concentrators how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits, using digital analytics.



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.

Successful completion of the Social Media Marketing program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



**Courses**

**9th Principles of Business, Marketing, and Finance:** BA11201 AB OR BAH11201 AB

**10th Business Law:**  
MK34901 T OR MKH34901 T

**11th Business Management<sup>1</sup>:**  
BA12102 AB OR BAH12102 AB

**12th Paid Practicum in Business Management<sup>2</sup>:**  
BA12210 AB OR BAH12210 AB  
OR  
**Unpaid Practicum in Entrepreneurship/d<sup>2</sup>:**  
MK34801 AB OR MKH34801 AB  
OR  
**Career Preparation for Programs of Study:** CPPS 1 AB  
OR  
**Extended Career Preparation for Program of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- **Global Business:** BA11801T OR Honors: BAH11801T

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Entrepreneurship and Small Business (ESB) Certification<sup>1</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour General Industry Certification<sup>2</sup>

**Available at:**

- Trimble Technical High School

The Retail & Entrepreneurship program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods.



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.

Successful completion of the Retail & Entrepreneurship program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020

## COURSE DESCRIPTIONS FOR BUSINESS, MARKETING, AND FINANCE CLASSES

<p><b>PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE AB (PRINBMF AB)</b></p> <p>In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.</p> <p><u>Instructional Material:</u> Principles of Business, Marketing, and Finance, 9<sup>th</sup> Edition 2017, Goodheart-Willcox Co.  <u>Prerequisite(s):</u> None  <i>Offered at: Benbrook MHS, Paschal HS, Trimble Tech HS</i></p>	<p><b>BAH11201AB</b></p> <p>13011200            Grade level: 9 - 10            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE AB (PRINBMF AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Principles of Business, Marketing, and Finance, 9<sup>th</sup> Edition 2017, Goodheart-Willcox Co.  <u>Prerequisite(s):</u> None  <i>Offered at: Benbrook MHS, Paschal HS, Trimble Tech HS</i></p>	<p><b>BAH11201AB</b></p> <p>13011200            Grade level: 9 - 10            HS Credit(s): 1 College Hour(s): NA  <b>Tier II</b></p>
<p><b>TOUCH SYSTEM DATA ENTRY T (TSDATAE T)</b></p> <p>In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry skills for the production of business documents.</p> <p><u>Instructional Material:</u> <i>Century 21 computer skills and Applications, Lesson 1-90, 10th Edition</i> Cengage Learning  <u>Prerequisite(s):</u> None</p>	<p><b>BA11301T</b></p> <p>13011300            Grade level: 9 - 10            HS Credit(s): 0.5</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>BUSINESS LAW AB (BUSLAW AB)</b></p> <p>Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.</p> <p><u>Instructional Material:</u> <i>Law for Business and Personal Use, 2017</i>, Cengage Learning Inc.  <u>Prerequisite(s):</u> Principles of Business, Marketing and Finance  <i>Offered at: Trimble Tech HS</i></p>	<p><b>BA11701AB</b></p> <p>13011700            Grade level: 11 - 12            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS BUSINESS LAW AB (BUSLAW AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Law for Business and Personal Use, 2017</i>, Cengage Learning Inc.  <u>Prerequisite(s):</u> Principles of Business, Marketing and Finance  <i>Offered at: Trimble Tech HS</i></p>	<p><b>BAH11701AB</b></p> <p>13011700            Grade level: 11 - 12            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>BUSINESS MANAGEMENT AB (BUSMGT AB)</b></p> <p>Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.</p> <p><u>Instructional Material:</u> <i>Business Management 14th edition, 2017</i>, Cengage Learning Inc.  <u>Prerequisite(s):</u> Business Information Management  <i>Offered at: Trimble Tech HS</i></p>	<p><b>BA12102AB</b></p> <p>13012100            Grade level: 11 - 12            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS BUSINESS MANAGEMENT AB (BUSMGT AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Business Management 14th edition, 2017</i>, Cengage Learning Inc.  <u>Prerequisite(s):</u> Business Information Management  <i>Offered at: Trimble Tech HS</i></p>	<p><b>BAH12102AB</b></p> <p>13012100            Grade level: 11-12            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>GLOBAL BUSINESS T (GLOBBUS T)</b></p> <p>Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.</p> <p><u>Instructional Material:</u> <i>Business, Marketing, Finance, IT &amp; Media Site</i>, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Business Law or Business Management  <i>Offered at: Trimble Tech HS</i></p>	<p><b>BA11801T</b></p> <p>13011800            Grade level: 11 - 12            HS Credit(s): 0.5</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS GLOBAL BUSINESS T (GLOBBUS T/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>BAH11801T</b></p> <p>13011800            Grade level: 11 - 12</p>

<p><u>Instructional Material:</u> <i>Business, Marketing, Finance, IT &amp; Media Site</i>, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Business Law or Business Management  <u>Offered at:</u> <i>Trimble Tech HS</i></p>	<p>HS Credit(s): 0.5  College Hour(s): NA  <b>Tier II</b></p>
<p><b>BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB)</b></p> <p>In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.</p>	<p><b>BA11412AB</b>  13011400  Grade level: 9 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Cashman Series: Microsoft Office 365 and Office 2016: Introductory</i>, Cengage Learning, Inc.  <u>Prerequisite(s):</u> None  <u>Offered at:</u> <i>Arlington Heights, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, World Languages Institute, Young Men's Leadership Academy</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>BAH11412AB</b>  13011400  Grade level: 9 – 12</p>
<p><u>Instructional Material:</u> <i>Cashman Series: Microsoft Office 365 and Office 2016: Introductory</i>, Cengage Learning, Inc.  <u>Prerequisite(s):</u> None  <u>Offered at:</u> <i>Arlington Heights, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, World Languages Institute, Young Men's Leadership Academy</i></p>	<p>HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>DUAL CREDIT BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB DC)</b>  <b>TCC COURSE: Business Computer Applications (BCIS 1305)</b>  <i>*Courses may change due to availability</i></p>	<p><b>BAD11412AB</b></p>
<p>Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets databases, presentation graphics, and business-oriented utilization of the Internet.</p>	<p>13011400  Grade level: 9 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> TCC Course: Business Computer Applications (BCIS 1305)  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI  <u>Offered only at:</u> <i>Marine Creek and TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>UNPAID PRACTICUM IN BUSINESS MANAGEMENT AB (PRACBM AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Business Management.</p>	<p><b>BA12202AB</b>  13012200  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> 2 credits from a combination of Business courses  <u>Offered at:</u> <i>Paschal, Polytechnic, and TCC South Collegiate HS</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN BUSINESS MANAGEMENT AB (PRACBM AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>BAH12202AB</b>  13012200  Grade level: 11-12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> 2 credits from a combination of Business courses  <u>Offered at:</u> <i>Paschal, Polytechnic, and TCC South Collegiate HS</i></p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>



<p><b>PAID PRACTICUM IN BUSINESS MANAGEMENT/EXTENDED AB (EXPBM1 AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decision. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>BA12210AB</b></p> <p>13012205 Grade level: 12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> 2 credits from a combination of Business courses <i>Offered only at: Arlington Heights, Carter Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, World Languages Institute, and Young Men's Leadership Academy</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS PAID PRACTICUM IN BUSINESS MANAGEMENT/EXTENDED AB (EXPBM1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> 2 credits from a combination of Business courses <i>Offered only at: Arlington Heights, Carter Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, World Languages Institute, and Young Men's Leadership Academy</i></p>	<p><b>BAH12210AB</b></p> <p>13012205 Grade level: 12 HS Credit(s): 3 College Hour(s): NA <b>Tier II</b></p>
<p><b>MONEY MATTERS AB (MONEYM AB)</b></p> <p>In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> None</p>	<p><b>FN16201AB</b></p> <p>13016200 Grade level: 10 - 12 HS Credit(s): 1</p>
<p><b>HONORS MONEY MATTERS AB (MONEYM AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> None</p>	<p><b>FNH16201AB</b></p> <p>13016200 Grade level: 10 – 12 HS Credit(s): 1</p>
<p><b>ACCOUNTING I AB (ACCOUNT1 AB)</b></p> <p>In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.</p> <p><u>Instructional Material:</u> <i>Century 21 Accounting: General Journal</i>, Cengage Learning <u>Prerequisite(s):</u> Money Matters <i>Offered only at: Arlington Heights, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Trimble Tech, Western Hills, and O.D. Wyatt</i></p>	<p><b>FN16612AB</b></p> <p>13016600 Grade level: 11 - 12 HS Credit(s): 1</p>
<p><b>HONORS ACCOUNTING I AB (ACCOUNT1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Century 21 Accounting: General Journal</i>, Cengage Learning <u>Prerequisite(s):</u> Money Matters in Accounting &amp; Finance Focus or Business Information Management II if Business Information Management Focus <i>Offered at: Arlington Heights, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Trimble Tech, Western Hills, and O.D. Wyatt</i></p>	<p><b>FNH16612AB</b></p> <p>13016600 Grade level: 11 – 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>

<b>ACCOUNTING II AB (ACCOUNT2 AB)</b>	<b>FN16722AB</b>
In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision-making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.	13016700 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Century 21 Accounting: General Journal</i> , Cengage Learning <u>Prerequisite(s):</u> Accounting I <i>Offered only at: Polytechnic</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ACCOUNTING II AB (ACCOUNT2 AB/H)</b>	<b>FNH16722AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13016700 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Century 21 Accounting: General Journal</i> , Cengage Learning <u>Prerequisite(s):</u> Accounting I <i>Offered only at: Polytechnic</i>	College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT ACCOUNTING IA (ACCOUNT1 A DC)</b> <b>TCC Course: Principles of Financial Accounting: (ACCT 2301)</b> <i>*Courses may change due to availability</i>	<b>FND16612A</b>
This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).	13016600 Grade level: 11 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> TCC Course: Principles of Financial Accounting (ACCT 2301) <u>TCC Prerequisite(s):</u> TSI compliant in Math <u>TCC Recommended Co-requisites:</u> MATH 1324 <i>Course taught by an approved adjunct instructor.</i> <i>Offered only at: Marine Creek and TCC South Collegiate HS (P-Tech)</i>	College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT ACCOUNTING IB (ACCOUNT1B DC)</b> <b>TCC Course: Principles of Managerial Accounting: (ACCT 2302)</b> <i>*Courses may change due to availability</i>	<b>FND16612B</b>
This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation.	13016600 Grade level: 11 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> TCC Course: Principles of Managerial Accounting (ACCT 2302) <u>TCC Prerequisite(s):</u> ACCT-2301 <i>Course taught by an approved adjunct instructor.</i> <i>Offered only at: Marine Creek and TCC South Collegiate HS (P-Tech)</i>	College Hour(s): 3 <b>Tier I</b>
<b>ENTREPRENEURSHIP I AB (ENTREP AB)</b>	<b>MK34401AB</b>
Students will be introduced to knowledge and skills entrepreneurs use on a daily basis. In this course, students will participate in activities to use the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.	13011101 Grade level: 10 HS Credit(s): 1
<u>Instructional Material:</u> <i>Entrepreneurship: Owning Your Future 12e</i> , Pearson Education, Inc. <u>Prerequisite(s):</u> Advertising or Business Information Management <i>Offered only at: Arlington Heights, Benbrook, Eastern Hills, North Side, Paschal, Trimble Tech, OD Wyatt and YMLA</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ENTREPRENEURSHIP AB (ENTREP AB/H)</b>	<b>MKH34401AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13011101 Grade level: 10 HS Credit(s): 1
<u>Instructional Material:</u> <i>Entrepreneurship: Owning Your Future 12e</i> , Pearson Education, Inc. <u>Prerequisite(s):</u> Advertising or Business Information Management <i>Offered only at: Arlington Heights, Benbrook, Eastern Hills, North Side, Paschal, Trimble Tech, OD Wyatt and YMLA</i>	College Hour(s): NA <b>Tier II</b>

<b>ENTREPRENEURSHIP II AB (ENTPRNR2 AB)</b>	<b>MK03423AB</b>
Students will be introduced to knowledge and skills entrepreneurs use on a daily basis. In this course, students will participate in activities to use the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.	13011102 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Entrepreneurship: Owning Your Future 12e</i> , Pearson Education, Inc. <u>Prerequisite(s):</u> Entrepreneurship <i>Offered only at: Arlington Heights, Benbrook, Eastern Hills, North Side, Paschal, Trimble Tech, OD Wyatt and YMLA</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ENTREPRENEURSHIP II AB (ENTPRNR2 AB/H)</b>	<b>MKH03423AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13011102 Grade level: 11 – 12 HS Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> <i>Entrepreneurship: Owning Your Future 12e</i> , Pearson Education, Inc. <u>Prerequisite(s):</u> Entrepreneurship <i>Offered only at: Arlington Heights, Benbrook, Eastern Hills, North Side, Paschal, Trimble Tech, OD Wyatt and YMLA</i>	<b>Tier II</b>
<b>MOBILE APPLICATION DEVELOPMENT (TAMBAD AB)</b>	<b>TA80390AB</b>
Mobile Application Development fosters creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use software development concepts to access, analyze, and evaluate information needed to program mobile devices. By using software design knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards.	03580390 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials. <u>Prerequisite(s):</u> Entrepreneurship	College Hour(s): NA <b>Tier III</b>
<b>HONORS MOBILE APPLICATION DEVELOPMENT (TAMBAD AB/H)</b>	<b>TAH80390AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	03580390 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials. <u>Prerequisite(s):</u> Entrepreneurship	College Hour(s): NA <b>Tier II</b>
<b>UNPAID PRACTICUM IN ENTREPRENEURSHIP AB (PRACENTRE AB)</b>	<b>MK34801AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. In addition to developing advanced technical knowledge and skills needed for success in the career fields of interest, students will be expected to develop an increasing understanding of the industry with a focus on applying management, finances, product development, and other entrepreneurship concepts in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Entrepreneurship.	13011111 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials. <u>Prerequisite(s):</u> (Dependent upon program) Fashion Design II, Entrepreneurship II, Business Management, or Mobile Application Development	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID PRACTICUM IN ENTREPRENEURSHIP AB/H (PRACENTRE AB/H)</b>	<b>MKH34801AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13011111 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials. <u>Prerequisite(s):</u> Entrepreneurship II, Business Management, or Mobile Application Development	College Hour(s): NA <b>Tier II</b>
<b>ADVERTISING T (ADV T)</b>	<b>MK34201T</b>
Advertising focuses on the concepts and skills associated with the dynamic advertising industry. The course introduces the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies, and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach	13034200 Grade level: 10 - 12 HS Credit(s): 0.5

target audiences and increase consumer knowledge. Students will learn the goals and objectives of advertising, identify and analyze advertisements, select media, and develop advertisements. Students with plans to major in business and marketing gain insight into the marketing arena and learn skills they need to compete successfully for jobs of the future.	
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd., <u>Prerequisite(s):</u> Principles of Business, Marketing, and Finance <i>This course is to be taught by a marketing certified teacher.</i> <i>Offered only at: Benbrook, Paschal and Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ADVERTISING T (ADV T/H)</b>	<b>MKH34201T</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13034200 Grade level: 10 – 12
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Business, Marketing, and Finance <i>Course taught by locally certified gifted CTE and marketing teacher</i> <i>Offered only at: Benbrook, Paschal and Trimble Tech</i>	HS Credit(s): 0.5 College Hour(s): NA <b>Tier II</b>
<b>FASHION MARKETING T (FASHMKTG T)</b>	<b>MK34301T</b>
This specialized course is for students who have a career interest in apparel, fashion, and/or accessory marketing. Instruction will cover all aspects of the industry. Students in this course will focus on each of the functions of marketing and how they relate to the fashion industry. Students will be able to apply these principles and concepts in marketing in their careers and in everyday life. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities in this field.	13034300 Grade level: 10 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Business, Marketing, and Finance or Fashion Design <i>Course taught by either a marketing or family consumer sciences certified teacher</i> <i>Offered only at: Benbrook and Paschal</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS FASHION MARKETING T (FASHMKTG T/H)</b>	<b>MKH34301T</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13034300 Grade level: 10 – 12
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Business, Marketing, and Finance or Fashion Design <i>Course taught by locally certified gifted marketing or family consumer sciences certified teacher</i> <i>Offered only at: Benbrook and Paschal</i>	HS Credit(s): 0.5 College Hour(s): NA <b>Tier II</b>
<b>SPORTS AND ENTERTAINMENT MARKETING T (SPORTSEM T)</b>	<b>MK34601T</b>
Sports and Entertainment Marketing provides students information about careers in the sports and entertainment industry. They will learn the basic principles of marketing and how they apply to the sponsorships, promotion, advertising, sales, event marketing, and communications necessary for a successful sports or entertainment event. Students will acquire the knowledge required to produce a sports and entertainment event and explore the education requirements to become a professional in this growing industry. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also provide students an opportunity to develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques.	13034600 Grade level: 10 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd., <u>Prerequisite(s):</u> Principles of Business, Marketing, and Finance <i>Offered only at: Benbrook, and Paschal</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS SPORTS AND ENTERTAINMENT MARKETING T (SPORTSEM T/H)</b>	<b>MKH34601T</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13034600 Grade level: 10 - 12
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Business, Marketing, and Finance <i>Offered only at: Benbrook, and Paschal</i>	HS Credit(s): 0.5 College Hour(s): NA <b>Tier II</b>
<b>SOCIAL MEDIA MARKETING (SOCMEDMK T)</b>	<b>MK34901T</b>
The course is designed to look at the rise of social media and how it has transformed the business as we once knew it. It will look at how marketers are integrating social media tools in their overall marketing strategy and how they are measuring success in this brave new world. The students will learn about the multi-disciplinary implications and how to manage a successful social media presence for an organization, as well as techniques for gaining customer and consumer buy-in to achieve their marketing goals.	13034650 Grade level: 11 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> ICEV Business, Marketing, Finance, IT & Media Site, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Any Marketing course <i>Offered only at: Benbrook, Paschal and Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>

<b>HONORS SOCIAL MEDIA MARKETING T (SOCMEDMK T/H)</b>	<b>MKH34901T</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13034650 Grade level: 11 – 12
<u>Instructional Material:</u> <i>JCEV Business, Marketing, Finance, IT &amp; Media Site</i> , CEV Multimedia Ltd.	HS Credit(s): 0.5
<u>Prerequisite(s):</u> Any Marketing course	College Hour(s): NA
<i>Offered only at: Benbrook, Paschal and Trimble Tech</i>	<b>Tier II</b>
<b>ADVANCED MARKETING AB/D (ADVMKT AB)</b>	<b>MK34700AB</b>
In Advanced Marketing, students will gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. In this double period course, students will illustrate appropriate management and research skills to solve problems related to marketing. This course covers technology, communication, and customer-service skills.	13034700 Grade level: 11 - 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> Two Marketing courses within the Marketing strand	<b>Tier III</b>
<i>Offered only at: Arlington Heights, Benbrook, Paschal and Trimble Tech</i>	
<b>HONORS ADVANCED MARKETING/D AB (ADVMKT AB/H)</b>	<b>MKH34700AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13034700 Grade level: 11 – 12
<u>Instructional Material:</u> Contact Career and Technical Education for related materials	HS Credit(s): 2
<u>Prerequisite(s):</u> Two Marketing courses	College Hour(s): NA
<i>Offered only at: Arlington Heights, Benbrook, Paschal and Trimble Tech</i>	<b>Tier II</b>
<b>PAID PRACTICUM IN MARKETING/EXTENDED AB (EXPRMKT1 AB)</b>	<b>MK34812AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. Classroom instruction focuses on advanced concepts and skills for marketing occupations with an emphasis on the total marketing process, sales promotion, buying, management, entrepreneurship, and careers in the field of marketing. Through course required employment, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. The co-requisite extension is included in the Practicum and is designed to give students supervised practical application of previously studied knowledge and skills. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or an average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.	13034805 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> <i>Goodheart - Willcox Marketing Dynamics, 3rd Edition 2014</i> , Goodheart-Willcox Co.	College Hour(s): NA
<u>Prerequisite(s):</u> Two Marketing courses within the Marketing strand	<b>Tier III</b>
<i>Offered only at: Benbrook and Paschal</i>	
<b>HONORS PAID PRACTICUM IN MARKETING AB/EXTENDED (EXPRMKT1 AB/H)</b>	<b>MKH34812AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13034805 Grade level: 12
<u>Instructional Material:</u> <i>Goodheart - Willcox Marketing Dynamics, 3rd Edition 2014</i> , Goodheart-Willcox Co.	HS Credit(s): 3
<u>Prerequisite(s):</u> Two Marketing courses within the Marketing strand	College Hour(s): NA
<i>Offered only at: Benbrook and Paschal</i>	<b>Tier II</b>
<b>HONORS CTE PROJECT-BASED CAPSTONE AB (PROBS1 AB/H)</b>	<b>CPH01500AB</b>
Students will research a real-world problem and possible solutions throughout this course. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.	12701101 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> Specific to program focus/pathway and is the previous course in the sequence.	<b>Tier II</b>
<i>Offered at: All high school campuses</i>	
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work	12701121 Grade level: 11-12 HS Credit(s): 2

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hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
**Tier III**

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**CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)**

**CP001132AB**

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This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

12701141  
Grade level: 11-12  
HS Credit(s): 3

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
Tier III

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**CAREER PREPARATION II FOR PROGRAMS OF STUDY AB CPPS 2 ( AB)**

**CP001142AB**

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This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

12701122  
Grade level: 11-12  
HS Credit(s): 2

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
**Tier III**

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**CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)**

**CP01402AB**

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This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

12701132  
Grade level: 11-12  
HS Credit(s): 3

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
**Tier III**

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## **Education and Training**

### **Teaching and Training**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.

## Courses



**9th Principles of Education and Training:**  
ED14201 AB OR EDH14201 AB

**10th Human Growth and Development:**  
ED14302 AB OR EDH14302 AB

**11th Instructional Practices/d<sup>2</sup>:**  
ED14402 AB OR EDH14402 AB

**Unpaid Practicum in Education and Training/d<sup>1</sup>:**

ED14502 AB OR EDH14502 AB  
OR

**Paid Practicum in Education and Training<sup>1</sup>:**

**12th** ED14510 AB OR EDH14510 AB  
OR

**Career Preparation for Programs of Study: CPPS 1 AB**

OR

**Extended Career Preparation for Programs of Study: EXCPPS 1 AB**

### Enrichment Courses:

N/A

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Educational Aide I<sup>1</sup>
- Not Counted towards Performance Acknowledgment: SafeSchools<sup>2</sup>

### Available at:

- Arlington Heights HS
- Benbrook HS
- Carter-Riverside HS
- Diamond Hill Jarvis HS
- Dunbar HS
- Eastern Hills HS
- North Side HS
- OD Wyatt HS
- Paschal HS
- Polytechnic HS
- South Hills HS
- Southwest HS
- Western Hills HS

The Teaching and Training program of study prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE concentrators to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.



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.

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Service Endorsement.  
Revised - July 2020



## COURSE DESCRIPTIONS FOR ALL EDUCATION AND TRAINING CLASSES

<p><b>PRINCIPLES OF EDUCATION AND TRAINING AB (PRINEDTR AB)</b></p> <p>The course, Principles of Education and Training, is designed to introduce students to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. They will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster.</p>	<p><b>ED14201AB</b></p> <p>13014200 Grade level: 9 - 10 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>ICEV Family and Consumer Sciences Site</i>, CEV Multimedia Ltd., ISBN#: 9781614594963 <u>Prerequisite(s):</u> None <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF EDUCATION AND TRAINING AB (PRINEDTR AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>EDH14201AB</b></p> <p>13014200 Grade level: 9 – 10</p>
<p><u>Instructional Material:</u> <i>ICEV Family and consumer Sciences Site</i>, CEV Multimedia Ltd. <u>Prerequisite(s):</u> None <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>HUMAN GROWTH AND DEVELOPMENT AB (HUGRDEV AB)</b></p> <p>Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.</p>	<p><b>ED14302AB</b></p> <p>13014300 Grade level: 10 - 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Lifespan Development Goodheart-Willcox Co.</i> <u>Prerequisite(s):</u> Principles of Education and Training <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS HUMAN GROWTH AND DEVELOPMENT AB (HUGRDEV AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>EDH14302AB</b></p> <p>13014300 Grade level: 10 – 12</p>
<p><u>Instructional Material:</u> <i>Lifespan Development, Goodheart-Willcox Co.</i> <u>Prerequisite(s):</u> Principles of Education and Training <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING/D AB (INPREDTR AB)</b></p> <p>Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. In this double-period course, students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary and middle school students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.</p>	<p><b>ED14402AB</b></p> <p>13014400 Grade level: 11 - 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Human Growth and Development <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING/D AB (INPREDTR AB/H)</b></p>	<p><b>EDH14402AB</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13014400 Grade level: 11 - 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Human Growth and Development <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>HS Credit(s): 2 College Hour(s): NA <b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN EDUCATION AND TRAINING/D AB (PRACEDTR AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. Unpaid Practicum in Education and Training is an unpaid field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. In this double-period course, students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary and middle school students. Students learn to plan and direct individualized instruction and group activities, prepare</p>	<p><b>ED14502AB</b></p> <p>13014500 Grade level: 12 HS Credit(s): 2</p>

<p>instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p>	
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Instructional Practices in Education and Training  <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN EDUCATION AND TRAINING/D AB (PRACEDTR AB/H)</b></p>	<p><b>EDH14502AB</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13014500  Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Instructional Practices in Education and Training  <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PAID PRACTICUM IN EDUCATION AND TRAINING/EXTENDED AB (EXPREDT1 AB)</b></p>	<p><b>ED14510AB</b></p>
<p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is a field-based paid internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p>13014505  Grade level: 12  HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Instructional Practices in Education and Training  <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PAID PRACTICUM IN EDUCATION AND TRAINING/EXTENDED AB (EXPREDT1 AB/H)</b></p>	<p><b>EDH14510AB</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13014505  Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Instructional Practices in Education and Training  <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Western Hills, and OD Wyatt</i></p>	<p>HS Credit(s): 3  College Hour(s): NA  <b>Tier II</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CCPS 1 AB)</b></p>	<p><b>CP01121AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB(EXCPP 1 AB)</b></p>	<p><b>CP001132AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701141  Grade level: 11-12  HS Credit(s): 3</p>

<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> None	Tier III
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701122 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> None	Tier III
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b>	<b>CP01402AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701132 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> None	Tier III



## **Health Science**

**Exercise Science, Wellness, and Restoration**

**Diagnostic & Therapeutic Services**

**Biomedical Science**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



## Courses

**9<sup>th</sup>** **Principles of Exercise Science and Wellness:**  
HS13021 AB **OR** HSH13021 AB

**10<sup>th</sup>** **Kinesiology I:**  
HS02104AB **OR** HSH02104AB

**11<sup>th</sup>** **Kinesiology II:**  
TBD HS02124 AB **OR** HSH AB

**Unpaid Practicum in Entrepreneurship/d:**  
MK34801 AB **OR** MKH34801AB

**OR**

**12<sup>th</sup>** **Career Preparation for Programs of Study:**  
CPPS 1 AB  
**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

### Enrichment Courses:

- **Anatomy and Physiology:** HS02062 AB **OR** HSH02062 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: TBA
- Not Counted towards Performance Acknowledgment: BLS/CPR Certification

### Available at:

- South Hills HS

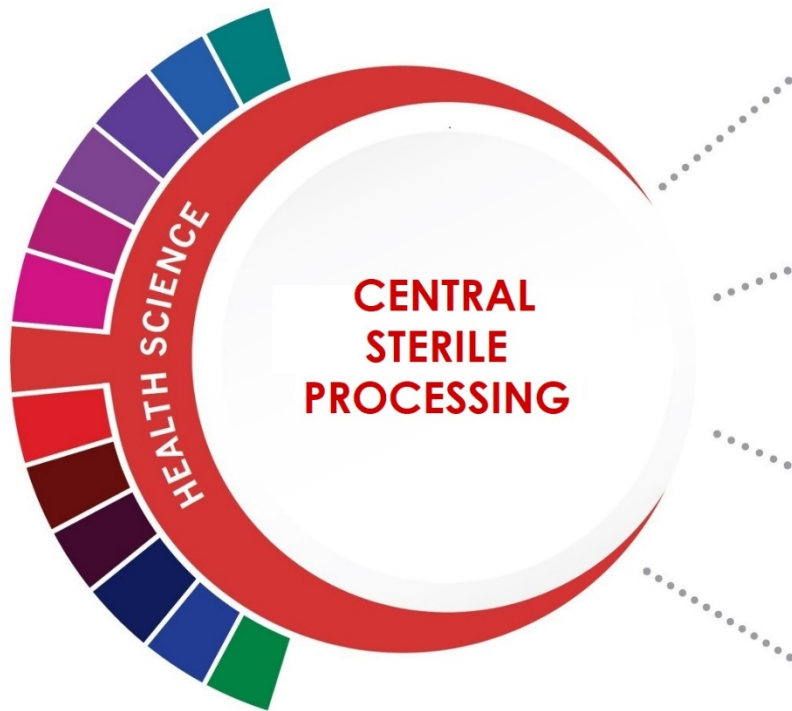
The Exercise Science and Wellness program of study introduces CTE learners to the fields that assist patients with maintaining physical, mental, and emotional health. Students will research diet and exercise needed to maintain a healthy, balanced lifestyle and learn about and practice techniques to help patients recover from injury, illness, or disease.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Exercise Science program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Locally approved Program of Study. Revised – October 2022

## Courses



**9th** **Principles of Health Science:**  
HS02022 AB OR HSH02022 AB  
AND/OR  
**Honors Principles of Biomedical  
Science (PLTW):**  
HSH2092 AB

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**10th** **Honors Human Body Systems (PLTW):**  
HSH2093 AB

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**11th** **Unpaid Practicum in Health Science I/d  
(General Clinical Skills)<sup>2,3</sup>:**  
HS05010 AB OR HSH05010 AB

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**Dual Credit Unpaid Practicum in  
Health Science II/d (Central Sterile  
Processing)<sup>1</sup>:**  
HSD02052 AB  
**OR**  
**Career Preparation for Programs of  
Study: CPPS 1 AB**  
**OR**  
**Extended Career Preparation for  
Programs of Study: EXCPPS 1 AB**

### Enrichment Courses:

- **Medical Microbiology:** HS02071 AB OR HSH02071 AB
- **Pathophysiology:** HS20801 AB OR HSH20801 AB
- **Pharmacology:** HS02044 AB OR HSH2044 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: N/A
- Not Counted towards Performance Acknowledgment: Sterile Processing and Distribution Technician Certification<sup>1</sup>;  
OSHA 10-Hour Healthcare Industry Certification<sup>2</sup>; BLS/CPR Certification<sup>3</sup>

### Available at:

- Texas Academy of Biomedical Sciences (TABS) HS

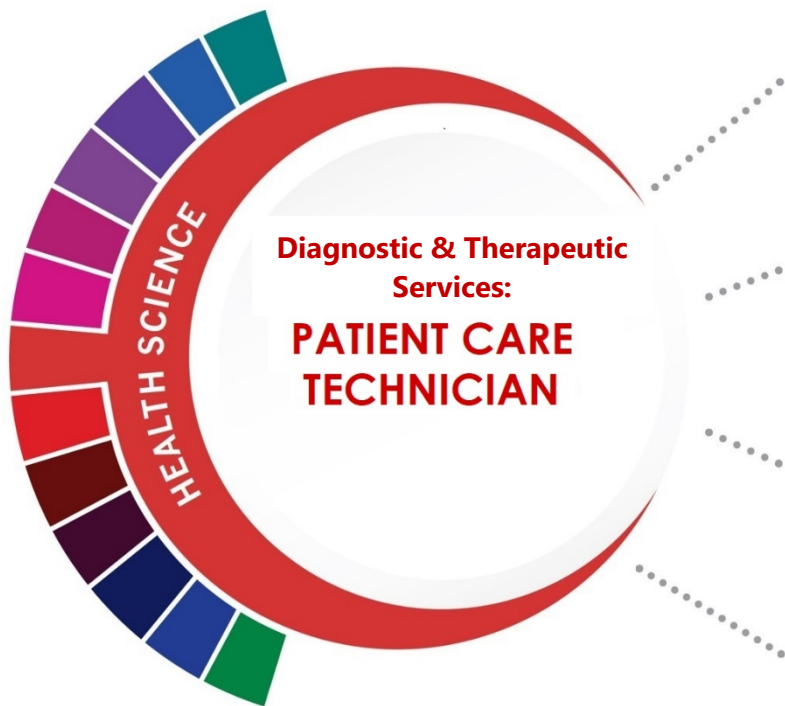
Healthcare Therapeutic's Certified Sterile Processing program of study under the Healthcare Therapeutics focuses on the practice of the cleaning and sterilization of used surgical instruments and other medical supplies to ensure the safety, redistribution, and reuse of instruments for future patients.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

*\*Although this is not a state-recognized Industry-Based Certification, it is a recognized component of meeting CCMR Performance Status*

Successful completion of the Healthcare Therapeutic: Central Sterile Processing program of study will fulfill requirements of the Public Service Endorsement. Locally approved Program of Study. Revised – July 2020



**Courses**

<b>9th</b>	<b>Principles of Health Science:</b> HS02022 AB OR HSH02022 AB
<b>10th</b>	<b>Health Science Theory:</b> HS02042 AB OR HSH02042 AB
<b>11th</b>	<b>Unpaid Practicum in Health Science I/d (General Clinical Skills)<sup>4, 5,6:</sup></b> HS05010 AB OR HSH05010 AB
<b>12th</b>	<b>Unpaid Practicum in Health Science II/d (Patient Care Technician)<sup>1,2,3,7:</sup></b> HS30204 AB OR HSH30204 AB <b>OR</b> <b>Career Preparation for Programs of Study: CPPS 1 AB</b> <b>OR</b> <b>Extended Career Preparation for Programs of Study: EXCPPS 1 AB</b>

**Enrichment Courses:**

- **Anatomy and Physiology:** HS02062 AB OR HSH02062 AB
- **Medical Microbiology:** HS02071 AB OR HSH02071 AB
- **Pathophysiology:** HS20801 AB OR HSH20801 AB
- **Pharmacology:** HS02044 AB OR HSH2044 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Patient Care Technician Certification<sup>1</sup>; *Optional certifications:* Phlebotomy Certification (CPT)<sup>2</sup>; Certified EKG Technician (CET)<sup>3</sup>; Certified Nurse Aide (CNA)<sup>6</sup>; Medical Assistant<sup>7</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour Healthcare Industry Certification<sup>4</sup>; BLS/CPR Certification<sup>5</sup>

**Available at:**

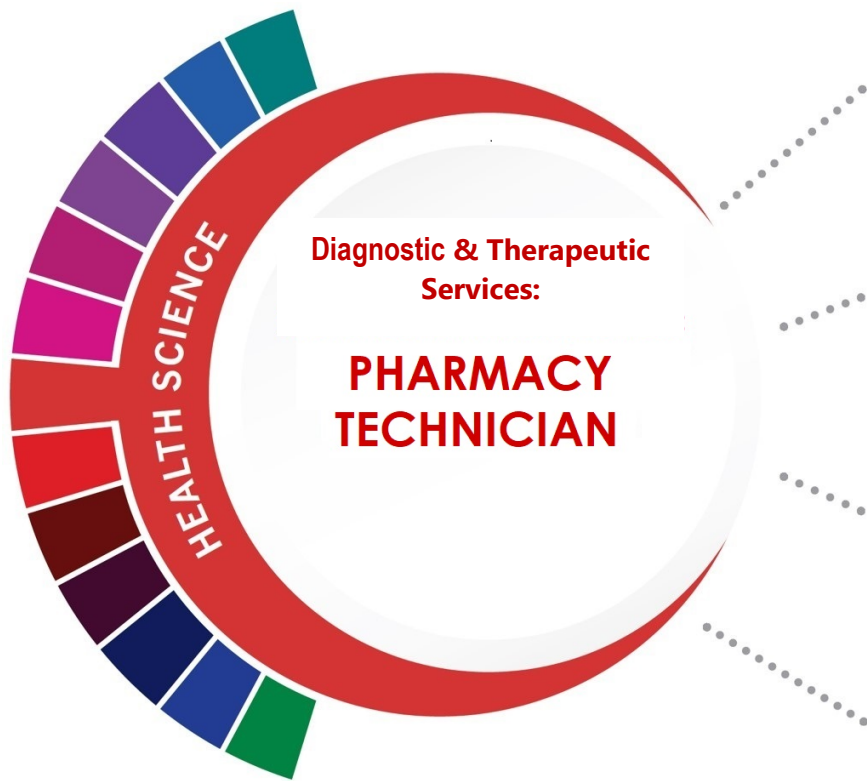
- North Side HS
- OD Wyatt HS
- Texas Academy of Biomedical Sciences (TABS) HS
- Trimble Technical HS

The Diagnostic and Therapeutic Services program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Healthcare Therapeutics program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Revised – July 2020



Courses	
9th	<b>Principles of Health Science:</b> HS02022 AB OR HSH02022 AB
10th	<b>Health Science Theory:</b> HS02042 AB OR HSH02042 AB
11th	<b>Unpaid Practicum in Health Science I/d (General Clinical Skills)<sup>2,3</sup>:</b> HS05010 AB OR HSH05010 AB
12th	<b>Unpaid Practicum in Health Science II/d (Pharmacy Technician)<sup>1</sup>:</b> HS05214 AB OR HSH05214 AB <b>OR</b> <b>Career Preparation for Programs of Study:</b> CPPS 1 AB <b>OR</b> <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Pharmacology:** HS02044 AB OR HSH2044 AB
- **Anatomy and Physiology:** HS02062 AB OR HSH02062 AB
- **Medical Microbiology:** HS02071 AB OR HSH02071 AB
- **Pathophysiology:** HS20801 AB OR HSH20801 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Certified Pharmacy Technician (CPHT)<sup>1</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour Healthcare Industry Certification<sup>2</sup>; BLS/CPR Certification<sup>3</sup>

**Available at:**

- North Side HS
- OD Wyatt HS
- Texas Academy of Biomedical Sciences (TABS) HS
- Trimble Technical HS

The Diagnostic and Therapeutic Services program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Healthcare Therapeutics program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Revised – July 2020



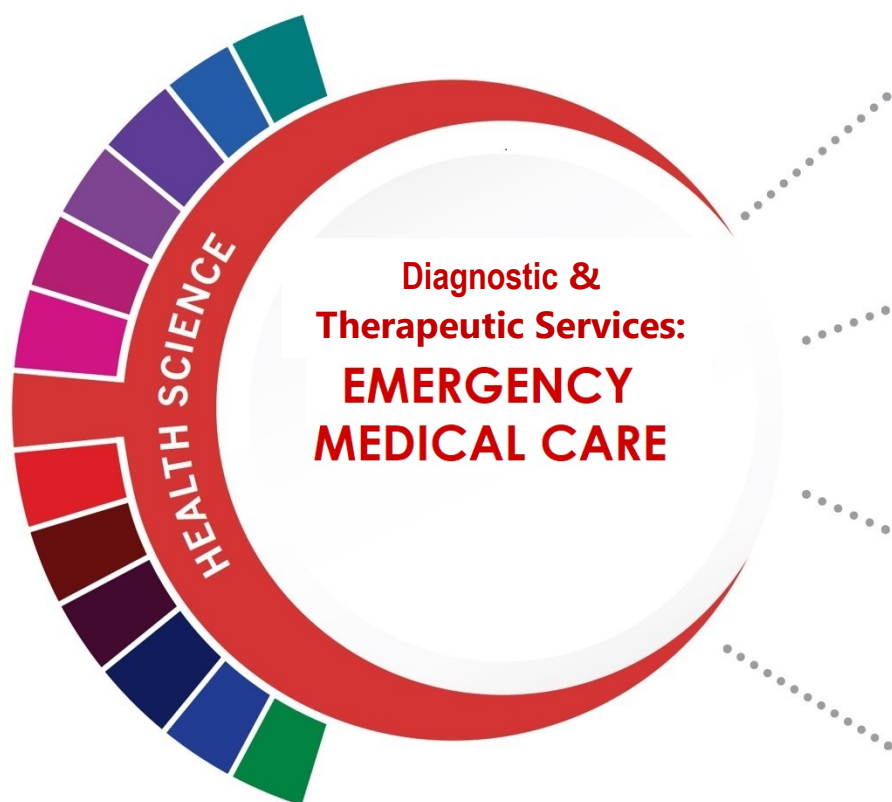
## Courses

**9th** **Principles of Health Science:**  
HS02022 AB OR HSH02022 AB

**10th** **Health Science Theory:**  
HS02042 AB OR HSH02042 AB

**11th** **Unpaid Practicum in Health Science  
I/d (General Clinical Skills)<sup>2,3</sup>:**  
HS05010 AB OR HSH05010 AB

**12th** **Unpaid Practicum in Health Science  
II/d (Emergency Medical Care)<sup>1,4</sup>:**  
HS05033 AB OR HSH05033 AB  
**OR**  
**Career Preparation for Programs of  
Study: CPPS 1 AB**  
**OR**  
**Extended Career Preparation for  
Programs of Study: EXCPPS 1 AB**



### Enrichment Courses:

- **Anatomy and Physiology:** HS02062 AB OR HSH02062 AB
- **Medical Microbiology:** HS02071 AB OR HSH02071 AB
- **Pathophysiology:** HS20801 AB OR HSH20801 AB
- **Pharmacology:** HS02044 AB OR HSH2044 AB

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Emergency Medical Technician (EMT)<sup>1,4</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour Healthcare Industry Certification<sup>2</sup>; BLS/CPR Certification<sup>3</sup>; and Emergency Medical Responder (EMR) Certifications<sup>4</sup>

### Available at:

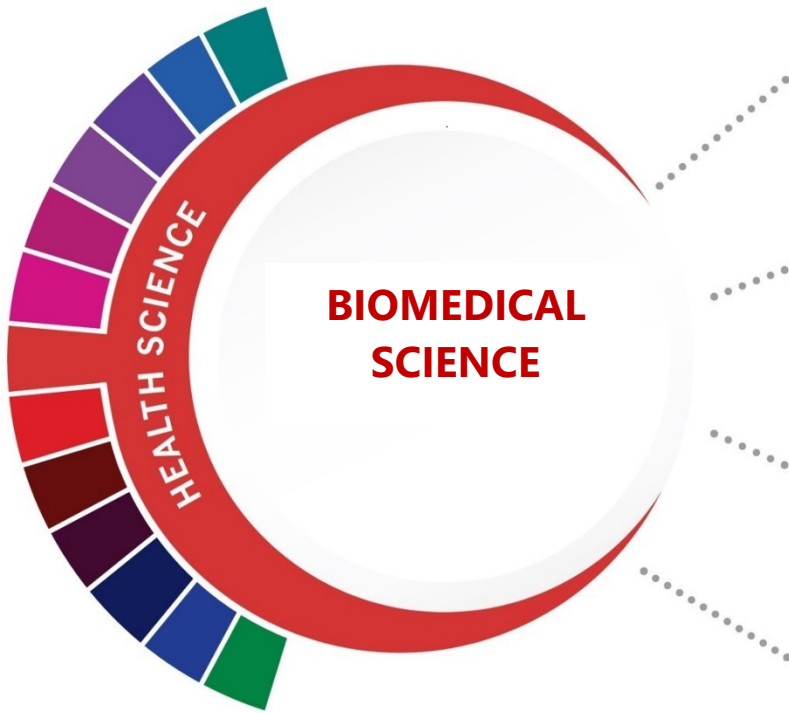
- North Side HS
- OD Wyatt HS
- Trimble Technical HS

The Diagnostic and Therapeutic Services program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Healthcare Therapeutics program of study will fulfill requirements of the Public Service or STEM endorsement if the math and science requirements are met. Revised – July 2020



**Courses**

<b>9th</b>	<b>Principles of Biomedical Science (PLTW):</b> HSH2092AB
<b>10th</b>	<b>Human Body Systems (PLTW):</b> HSH2093AB
<b>11th</b>	<b>Medical Interventions (PLTW):</b> HSH30209AB
<b>12th</b>	<b>Pathophysiology:</b> HS20801AB OR SH20801AB OR <b>Unpaid Practicum in STEM/d:</b> STH37402AB OR <b>Scientific Research and Design<sup>1</sup>:</b> ST37202AB OR STH37202AB OR <b>Career Preparation for Programs of Study<sup>1</sup>:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study<sup>1</sup>:</b> EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Biotechnician Assistant Credentialing Exam (BACE)<sup>1</sup>
- Not Counted Towards Performance Acknowledgment: N/A

**Available At:**

- Texas Academy of Biomedical Sciences (TABS) HS

The Biomedical Science program of study focuses on the study of biology and medicine in order to introduce students to the knowledge and skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health. Students may also practice patient care and communication.



The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Successful completion of the Biomedical Science program of study will fulfill requirements of the Public Service Endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020

## COURSE DESCRIPTIONS FOR HEALTH SCIENCE TECHNOLOGY CLASSES

<p><b>HONORS PRINCIPLES OF BIOMEDICAL SCIENCE AB (PLTW) (PRBIOSCI AB/H)</b></p> <p>In this Project Lead the Way course, students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. Students in this honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS2092AB</b></p> <p>N1302092 Grade level: 9 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>PLTW CURRICULUM</i> <u>Prerequisite(s):</u> None <i>Offered only at: TABS, a Project Lead the Way approved school.</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>ANATOMY AND PHYSIOLOGY AB (ANATPHYS AB)</b></p> <p>In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.</p>	<p><b>HS02062AB</b></p> <p>13020600 Grade level: 11 – 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Introduction to Anatomy &amp; Physiology</i>, Goodheart Willcox Co. ISBN#: 9781683113065 <u>Prerequisite(s):</u> Biology and Chemistry <i>Anatomy and Physiology may be taught by any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences.</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS ANATOMY AND PHYSIOLOGY AB (ANATPHYS AB/H)</b></p> <p>Students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Anatomy and Physiology may be taught by any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences. It may also be taught by a certified secondary science teacher. 19 TAC Chapter 231. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS2062AB</b></p> <p>13020600 Grade level: 11 – 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Introduction to Anatomy &amp; Physiology</i>, Goodheart Willcox Co. <u>Prerequisite(s):</u> Biology and Chemistry</p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS HUMAN BODY SYSTEMS AB (PLTW) (HUMBODSY AB/H)</b></p> <p>In this Project Lead the Way course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries. Students in this honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS2093AB</b></p> <p>N1302093 Grade level: 10 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i> <u>Prerequisite(s):</u> Medical Terminology and Principles of Biomedical Science <i>Offered only at: TABS, a Project Lead the Way approved school</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>MEDICAL MICROBIOLOGY AB (MICRO AB)</b></p> <p>Students in Medical Microbiology explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific diseases, causative agents, and treatment options. Activities will include a variety of lab experiences designed to build microbiology lab skills and techniques. In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.</p>	<p><b>HS02071AB</b></p> <p>13020700 Grade level: 11 - 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i> <u>Prerequisite(s):</u> Biology and Chemistry. <i>This course may be taught by a certified secondary science teacher or any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS MEDICAL MICROBIOLOGY AB (MICRO AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS2071AB</b></p> <p>13020700 Grade level: 11 - 12</p>

<p><b>Instructional Material:</b> Contact Career and Technical Education Department for related materials</p> <p><b>Prerequisite(s):</b> Biology and Chemistry</p> <p><i>This course may be taught by a certified secondary science teacher or any CTE teacher certified in Health Science Technology Education or Vocational Health Occupations with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>PATHOPHYSIOLOGY AB (PATHO AB)</b></p> <p>In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.</p>	<p><b>HS20801AB</b></p> <p>13020800</p> <p>Grade level: 11 - 12</p> <p>HS Credit(s): 1</p>
<p><b>Instructional Material:</b> <i>Human Disease 4th edition; Cengage Learning</i></p> <p><b>Prerequisite(s):</b> Biology and Chemistry; Principles of Health Science</p> <p><i>4th year science credit</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS PATHOPHYSIOLOGY AB (PATHO AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS20801AB</b></p> <p>13020800</p> <p>Grade level: 11 – 12</p>
<p><b>Instructional Material:</b> <i>Human Disease 4th edition; Cengage Learning</i></p> <p><b>Prerequisite(s):</b> Biology and Chemistry; Principles of Health Science</p> <p><i>4th year science credit</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>PRINCIPLES OF HEALTH SCIENCE AB (PRINHLSC AB)</b></p> <p>Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students learn that to pursue a career in the health science industry, they must be able to reason, think critically, make decisions, solve problems, and communicate effectively. They learn that quality health care depends on the ability to work well with others. Students identify and research employment opportunities, technology, and safety requirements of the different systems within health science field. They apply knowledge and skills needed to pursue a health science career. Students are expected to employ their ethical and legal responsibilities, identify limitations, as well as understand the implications of their actions. This course will also introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations.</p>	<p><b>HS02022AB</b></p> <p>13020200</p> <p>Grade level: 9</p> <p>HS Credit(s): 1</p>
<p><b>Instructional Material:</b> <i>Principles of Health Science Texas Student Edition and Medical Terminology, A Living Language, Third Edition, 2017, Pearson Education</i></p> <p><b>Prerequisite(s):</b> N/A</p> <p><i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF HEALTH SCIENCE AB (PRINHLSC AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS02022AB</b></p> <p>13020200</p> <p>Grade level: 9</p>
<p><b>Instructional Material:</b> <i>Principles of Health Science Texas Student Edition and Medical Terminology, A Living Language, Third Edition, 2017, Pearson Education</i></p> <p><b>Prerequisite(s):</b> N/A</p> <p><i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>HEALTH SCIENCE THEORY AB (HLTHSCI AB)</b></p> <p>This course allows students to gain the knowledge and skills necessary for employment or continuing education in the health care industry. The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.</p>	<p><b>HS02042AB</b></p> <p>13020400</p> <p>Grade level: 11</p> <p>HS Credit(s): 1</p>
<p><b>Instructional Material:</b> <i>DHO Health Science, Updated 8th Edition, Cengage Learning Inc.</i></p> <p><b>Prerequisite(s):</b> Principles of Health Science</p> <p><i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS HEALTH SCIENCE THEORY AB (HLTHSCI AB)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HS02042AB</b></p> <p>13020400</p> <p>Grade level: 11</p>
<p><b>Instructional Material:</b> <i>DHO Health Science, Updated 8th Edition, Cengage Learning Inc.</i></p> <p><b>Prerequisite(s):</b> Principles of Health Science</p> <p><i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>PRACTICUM IN HEALTH SCIENCE I: GENERAL CLINICAL SKILLS AB</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. The Practicum is designed to give students practical application of previously studied knowledge and skills. In this double period course, students will gain knowledge and skills that will prepare them for their senior clinical certification course. In this course the student will learn to perform skills that will prepare them to work in the hospital setting, including taking vitals, assisting with activities of daily living, and providing comfort care. The student will gain basic knowledge of medical terms, ethics, legal issues, and anatomy and physiology. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school</p>	<p><b>HS05010AB</b></p> <p>13020500</p> <p>Grade level: 11</p> <p>HS Credit(s): 2</p>

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Health Science Theory  <i>Offered only at: North Side, O.D. Wyatt, Trimble Tech and TABS</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRACTICUM IN HEALTH SCIENCE I: GENERAL CLINICAL SKILLS AB</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Health Science Theory  <i>Offered only at: North Side, O.D. Wyatt, Trimble Tech and TABS</i></p>	<p><b>HS05010AB</b>  13020500  Grade level: 11  HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PRACTICUM IN HEALTH SCIENCE II: EMERGENCY MEDICAL CARE/D AB (PRACHLS2 EMC AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This practicum is designed to give students practical application of previously studied knowledge and skills. In this course students will gain an understanding of the pathophysiology of common medical and trauma emergencies and become proficient in the skills necessary to treat them in the pre-hospital setting. This course will prepare the student to take the national Emergency Medical Technician exam. EMTB (basic) level certification is the standard beginning level to work in an ambulance. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills or permission of the CTE Department  <i>Offered only at: Trimble Tech</i></p>	<p><b>HS05033AB</b>  13020510  Grade level: 12  HS Credit(s): 2</p>
<p><b>HONORS PRACTICUM IN HEALTH SCIENCE II: EMERGENCY MEDICAL CARE/D AB (PRACHLS2 EMC AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills or permission of the CTE Department  <i>Offered only at: Trimble Tech</i></p>	<p><b>HS05033AB</b>  13020510  Grade level: 12  HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PRACTICUM IN HEALTH SCIENCE II: PATIENT CARE TECHNICIAN/D AB (PHSPCT 2AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. The Practicum is designed to give students practical application of previously studied knowledge and skills. In this double period course, students will gain knowledge and skills to pursue a national Patient Care Technician certification. In this course the student will learn to perform skills like performing phlebotomy and ECG, taking vitals, assisting with activities of daily living, and providing comfort care. The student will gain basic knowledge of medical terms, ethics, legal issues, and anatomy and physiology. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills  <i>Offered only at: North Side, O.D. Wyatt, Trimble Tech and TABS</i></p>	<p><b>HS30204AB</b>  13020510  Grade level: 12  HS Credit(s): 2</p>
<p><b>HONORS PRACTICUM IN HEALTH SCIENCE II: PATIENT CARE TECHNICIAN/D AB (PHSPCT 2AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills  <i>Offered only at: North Side, O.D. Wyatt, Trimble Tech and TABS</i></p>	<p><b>HS30204AB</b>  13020510  Grade level: 12  HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PRACTICUM IN HEALTH SCIENCE II: PHARMACY TECH/D AB (PHSPHT 2AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This Practicum is designed to give students practical application of previously studied knowledge and skills. The student will gain knowledge and skills in this double-period course to pursue a Pharmacy Technician Certification. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In this course students will document technical knowledge and skills in an updated professional portfolio that includes technical skill competencies, licensures or certifications, awards and scholarships, and extended learning experiences such as community service and active participation in career and technical student organizations and</p>	<p><b>HS05214AB</b>  13020510  Grade level: 12  HS Credit(s): 2</p>

<p>professional organizations. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills or Pharmacology  <i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRACTICUM IN HEALTH SCIENCE II: PHARMACY TECH/D AB (PHSPHT 2AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills or Pharmacology  <i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p><b>HS05214AB</b>  13020510  Grade level: 12  HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>CTE PROJECT-BASED CAPSTONE IN HEALTH SCIENCE AB (PROBS2 AB)</b></p> <p>Project Based Research in Health Science is a course for students who have the ability to research a real-world problem. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge, skills, and technologies in a variety of settings. This course must be cooperatively planned by the student and teacher, continuously supervised by the teacher, and conducted by the student with the guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the courses.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Director for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills  <i>This course is designed to provide students an opportunity to earn one advanced measure for the Distinguished Achievement Program.</i>  <i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p><b>HS01532AB</b>  12701101  Grade level: 12  HS Credit(s): 1</p>
<p><b>HONORS CTE PROJECT-BASED CAPSTONE IN HEALTH SCIENCE AB (PROBS2 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Director for related materials  <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills  <i>This course is designed to provide students an opportunity to earn one advanced measure for the Distinguished Achievement Program.</i>  <i>Offered only at: North Side, Trimble Tech, OD Wyatt, and TABS</i></p>	<p><b>HS01532AB</b>  12701101  Grade level: 12  HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PHARMACOLOGY AB (PHARM AB)</b></p> <p>The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Biology and Chemistry  <u>Co-Requisite:</u> Practicum in Health Science I: General Clinical Skills  <i>Offered only at: Trimble Tech, North Side, OD Wyatt, and TABS</i></p>	<p><b>HS02044AB</b>  13020950  Grade level:11  HS Credit(s): 1</p>
<p><b>HONORS PHARMACOLOGY AB (PHARM AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Biology and Chemistry.  <u>Co-Requisite:</u> Practicum in Health Science I: General Clinical Skills  <i>Offered only at: Trimble Tech, North Side, OD Wyatt, and TABS</i></p>	<p><b>HS02044AB</b>  13020950  Grade level: 11  HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>DUAL CREDIT PRACTICUM IN HEALTH SCIENCE: CENTRAL STERILE PROCESSING (PHSCSP A DC) TCC COURSE: (HPRS 1470) Central Sterile Processing and (HPRS 1370) Central Sterile Processing II</b></p> <p>This Practicum is designed to give students practical application of previously studied knowledge and skills. In this double-period course, students will gain knowledge and skills to pursue a certification as Central Sterile Processing Technician. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Sterile processing technicians are specially trained healthcare workers who use their specialized skills and knowledge to clean and sterilize medical instruments, equipment, and supplies. In this course students will document technical knowledge and skills in an updated professional portfolio that includes technical skill competencies; licensures or certifications, awards and scholarships and extended learning experiences such as community service and active participation in career and technical student organizations and professional organizations.</p>	<p><b>HSD02052A</b>  13020510  Grade level: 12  HS Credit(s): 1</p>

<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills <u>Offered only at:</u> TABS	College Hour(s): 7 <b>Tier I</b>
<b>DUAL CREDIT PRACTICUM IN HEALTH SCIENCE: CENTRAL STERILE PROCESSING (PHSCSP B DC) HSD02052B</b> <b>TCC COURSE: (HPRS 1471) Central Sterile Processing III and (HPRS 1561) Central Sterile Processing Clinicals</b>	
This Practicum is designed to give students practical application of previously studied knowledge and skills. In this double-period course, students will gain knowledge and skills to pursue a certification as Central Sterile Processing Technician. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Sterile processing technicians are specially trained healthcare workers who use their specialized skills and knowledge to clean and sterilize medical instruments, equipment, and supplies. In this course students will document technical knowledge and skills in an updated professional portfolio that includes technical skill competencies; licensures or certifications, awards and scholarships and extended learning experiences such as community service and active participation in career and technical student organizations and professional organizations.	13020510 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Practicum in Health Science I: General Clinical Skills <u>Offered only at:</u> TABS	College Hour(s): 9 <b>Tier I</b>
<b>HONORS SCIENTIFIC RESEARCH AND DESIGN III AB (SCIRD3 AB/H)</b>	<b>STH37222AB</b>
The student conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment but may also involve experimentation in a simulated environment as well as field observations that extend beyond the science or CTE classrooms. Research in an area of bio-related technology; communication; construction; energy, power, and transportation; or engineering align with various CTE clusters. Students apply research to problem solving and development of prototypes and working models. Special projects are included in this honors level course. Independent research is a required component of all Honors Scientific Research and Design courses. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037220 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> To receive 4th year science credit students must have completed three (3) units of science (Biology, Chemistry, Physics) one (1) of which may be taken concurrently. <i>Course taught by locally certified gifted teacher and may be taught by any certified secondary science teacher or CTE teacher with a baccalaureate degree and 18 semester credit hours.</i>	College Hour(s): NA <b>Tier II</b>
<b>PRINCIPLES OF EXERCISE SCIENCE AND WELLNESS (EXSCIWL AB)</b>	<b>HS13021AB</b>
The Principles of Exercise Science and Wellness course is designed to provide for the development of knowledge and skills in fields that assist patients with maintaining physical, mental, and emotional health. Students in this course will understand diet and exercise, as well as techniques to help patients recover from injury, illness, and disease. They will also learn about introductory health science topics such as employability skills, lifespan development, and ethical and legal standards. Students who take this course are ideally interested in such careers as physical therapy, athletic training, nutrition, personal training, and recreational therapy. The central focus of this course is to provide students with a solid foundation in the topics of health and wellness and increase their interest in the various careers available in these fields.	N1302107 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: South Hills</i>	College Hour(s): N/A <b>Tier III</b>
<b>HONORS PRINCIPLES OF EXERCISE SCIENCE AND WELLNESS (EXSCIWL AB/H)</b>	<b>HS13021AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302107 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: South Hills</i>	College Hour(s): N/A <b>Tier II</b>
<b>KINESIOLOGY I (KINES1 AB)</b>	<b>HS02104AB</b>
This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers within the kinesiology field and be able to explain the societal demand for kinesiology-related jobs. Students will develop a foundation in Kinesiology I that will prepare them for upper-level courses that will dive deeper into the anatomical and physiological functions of the body and provide opportunities for an industry-certified exam such as a certified personal trainer.	N1302104 Grade level: 10 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Exercise Science and Wellness <i>Offered only at: South Hills</i>	College Hour(s): N/A <b>Tier III</b>
<b>HONORS KINESIOLOGY I (KINES1 AB/H)</b>	<b>HS02104AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302104 Grade level: 10

<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> Principles of Exercise Science and Wellness	College Hour(s): N/A
<i>Offered only at: South Hills</i>	<b>Tier II</b>
<b>KINESIOLOGY II (KINES2 AB)</b>	<b>HS02124AB</b>
The Kinesiology II course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. The course is designed to allow students to advance their understanding of professional standards, employability skills, and ethical and legal standards. Throughout this course, students explore the healthcare/exercise business model and gain an understanding of therapeutic sports psychology. Students develop proper aerobic fitness programs and rehabilitation programs. Kinesiology II prepares students for an industry certification exam such as Certified Personal Trainer.	N1302124 Grade level: 11 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): N/A
<u>Prerequisite(s):</u> Kinesiology I	<b>Tier III</b>
<i>Offered only at: South Hills</i>	
<b>HONORS KINESIOLOGY II (KINES2 AB/H)</b>	<b>HS02124AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302124 Grade level: 11
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> Kinesiology I	College Hour(s): N/A
<i>Offered only at: South Hills</i>	<b>Tier II</b>
<b>UNPAID PRACTICUM IN ENTREPRENEURSHIP AB (PRACENTRE AB)</b>	<b>MK34801AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. In addition to developing advanced technical knowledge and skills needed for success in the career fields of interest, students will be expected to develop an increasing understanding of the industry with a focus on applying management, finances, product development, and other entrepreneurship concepts in a professional environment Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Entrepreneurship.	13011111 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials.	College Hour(s): NA
<u>Prerequisite(s):</u> Kinesiology II	<b>Tier III</b>
<i>Offered only at: South Hills</i>	
<b>HONORS UNPAID PRACTICUM IN ENTREPRENEURSHIP AB (PRACENTRE AB/H)</b>	<b>MKH34801AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13011111 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials.	HS Credit(s): 2
<u>Prerequisite(s):</u> Kinesiology II	College Hour(s): NA
<i>Offered only at: South Hills</i>	<b>Tier II</b>
<b>HONORS CTE PROJECT-BASED CAPSTONE AB (PROBS1 AB/H)</b>	<b>CPH01500AB</b>
Students will research a real-world problem and possible solutions throughout this course. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.	12701101 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials.	College Hour(s): NA
<u>Prerequisite(s):</u> Kinesiology II	<b>Tier II</b>
<i>Offered only at: South Hills</i>	
<b>HONORS PRINCIPLES OF BIOMEDICAL SCIENCE AB (PLTW) (PRBIOSCI AB/H)</b>	<b>HS2092AB</b>
In this Project Lead the Way course, students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses. Students in this honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302092 Grade level: 9 HS Credit(s): 1



Instructional Material: Project Lead the Way materials furnished by CTE department Prerequisite(s): None Offered at: TABS	College Hour(s): NA <b>Tier II</b>
<b>HONORS HUMAN BODY SYSTEMS AB (PLTW) (HUMBODSY AB/H)</b>	<b>HS2093AB</b>
In this Project Lead the Way course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases and often play the role of biomedical professionals to solve medical mysteries. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302093 Grade level: 10 HS Credit(s): 1
Instructional Material: Project Lead the Way materials furnished by CTE department Prerequisite(s): Principles of Biomedical Science (PLTW) Offered at: TABS	College Hour(s): NA <b>Tier II</b>
<b>HONORS MEDICAL INTERVENTIONS AB (PLTW) (MEDINT AB/H)</b>	<b>HS30209AB</b>
Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302094 Grade level: 11 - 12 HS Credit(s): 1
Instructional Material: Project Lead the Way materials furnished by CTE department Prerequisite(s): Human Body Systems (PLTW) Offered at: TABS	College Hour(s): NA <b>Tier II</b>
<b>HONORS UNPAID PRACTICUM IN STEM/d AB (PRACSTEM AB/H)</b>	<b>STH37402AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In addition, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037400 Grade level: 12 HS Credit(s): 2
Instructional Material: Contact Career and Technical Education Director for related materials Prerequisite(s): Medical Interventions (PLTW), Medical Microbiology Offered only at: TABS	College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM/EXTENDED AB (EXPRSTEM1 AB/H)</b>	<b>STH37405AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In addition, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037405 Grade level: 12
Instructional Material: Contact Career and Technical Education Director for related materials Prerequisite(s): Medical Interventions (PLTW), Medical Microbiology Offered only at: TABS	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM AB (PRACSTEM-AB/H)</b>	<b>STH37409AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In addition, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The	13037400 Grade level: 12 HS Credit(s): 2

<p>various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p>Instructional Material: Contact Career and Technical Education Director for related materials Prerequisite(s): Medical Interventions (PLTW), Medical Microbiology Offered only at: TABS</p>	<p>College Hour(s): NA Tier II</p>
<p><b>SCIENTIFIC RESEARCH AND DESIGN AB (SCIRD AB)</b></p>	<p><b>ST37202AB</b> <b>ST37212AB (2<sup>nd</sup> Time)</b></p>
<p>The student conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations must involve actively obtaining and analyzing data with physical equipment but may also involve experimentation in a simulated environment as well as field observations that extend beyond the science or CTE classrooms. Research in an area of bio-related technology; communication; construction; energy, power, and transportation; or engineering align with various CTE clusters. Students apply research to problem solving and development of prototypes and working models. Students may repeat the Scientific Research and Design course TEKS with different course content for up to a maximum of three credits. If being taken as their fourth-year science course, DAP students must successfully complete a biology, a chemistry, and a physics course prior to the Scientific Research and Design course or take it concurrently with the third one of these required courses.</p>	<p>130372## Grade level: 11 – 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> To receive 4th year science credit students must have completed three (3) units of science (Biology, Chemistry, Physics) one (1) of which may be taken concurrently 130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20 Offered at: TABS</p>	<p>College Hour(s): NA Tier III</p>
<p><b>HONORS SCIENTIFIC RESEARCH AND DESIGN AB (SCIRD AB/H)</b></p>	<p><b>STH37202AB</b> <b>STH37212AB (2<sup>nd</sup> Time)</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>130372## Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA Tier II</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> To receive 4th year science credit students must have completed three (3) units of science (Biology, Chemistry, and Physics) one (1) of which may be taken concurrently 130372##: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20 Course taught by locally certified gifted teacher Offered at: TABS</p>	
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b></p>	<p><b>CP01121AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121 Grade level: 11-12 HS Credit(s): 2</p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA Tier III</p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b></p>	<p><b>CP001132AB</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during</p>	<p>12701141 Grade level: 11-12 HS Credit(s): 3</p>

the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> None	Tier III
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701122 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> None	Tier III
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b>	<b>CP01402AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701132 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials	College Hour(s): NA
<u>Prerequisite(s):</u> None	Tier III



## **Hospitality and Tourism**

### **Culinary Arts**

### **Lodging and Resort Management**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

<b>9th</b>	<b>Principles of Hospitality and Tourism:</b> HT22201 AB OR HTH22201 AB
<b>10th</b>	<b>Introduction to Culinary Arts<sup>1</sup>:</b> HT22400 AB OR HTH22400
<b>11th</b>	<b>Culinary Arts/d<sup>2</sup>:</b> HT22602 AB OR HTH22602 AB
<b>12th</b>	<b>Advanced Culinary Arts/d<sup>3,4</sup>:</b> HT22603 AB OR HTH22603 AB OR <b>Paid Practicum in Culinary Arts<sup>3,4</sup>:</b> HT22710 AB OR HTH22710 AB <b>OR</b> <b>Career Preparation for Programs of Study:</b> CPPS 1 AB <b>OR</b> <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Food Science:** HT23002 AB OR HTH23002 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: ServSafe Food Managers Certification<sup>2</sup> Certified Fundamentals Cook<sup>4</sup>
- Not counted towards Performance Acknowledgement: ServSafe Food Handlers Certification<sup>1</sup>; ServSafe Food Allergens<sup>3</sup>

**Available at:**

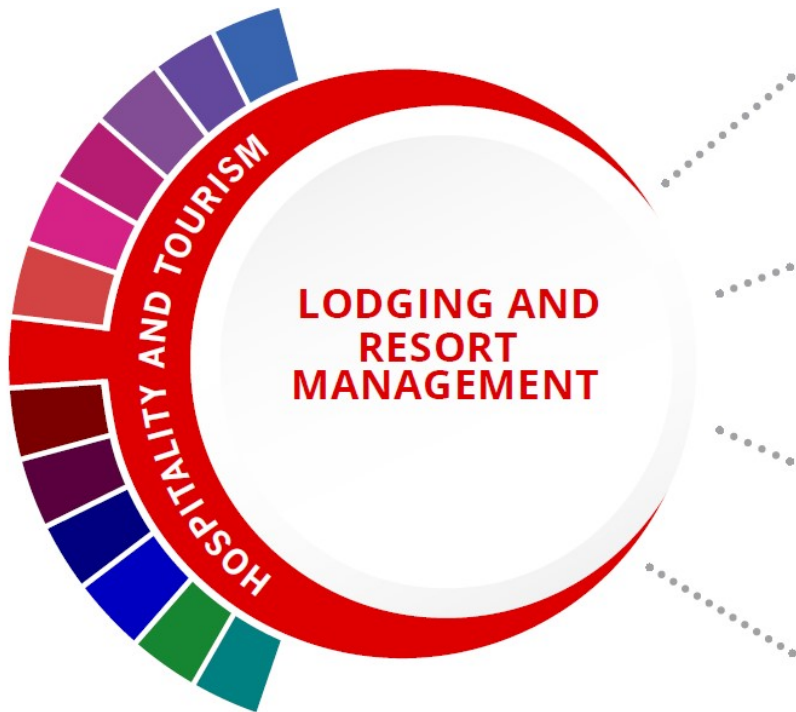
- North Side HS
- OD Wyatt HS
- Polytechnic HS
- South Hills HS
- Trimble Technical HS

The Culinary Arts program of study introduces students to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.



The Hospitality and Tourism Career Cluster® focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry Endorsement. Revised – July 2020



**Courses**

<b>9th</b>	<b>Principles of Hospitality and Tourism:</b> HT22201 AB OR HTH22201 AB
<b>10th</b>	<b>Travel and Tourism Management AB</b> HT22500 AB OR HTH22500 AB
<b>11th</b>	<b>Hospitality Services/d<sup>1</sup>:</b> HT22802 AB OR HTH22802 AB
	<b>Unpaid Practicum in Hospitality Services/d<sup>2</sup>:</b> HT22902 AB OR HTH22902 AB OR <b>Paid Practicum in Hospitality Services<sup>2</sup>:</b> HT22910 AB OR HTH22910 AB OR
<b>12th</b>	<b>Career Preparation for Programs of Study<sup>2</sup>:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study<sup>2</sup>:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Food Science:** HT23002 AB OR HTH23002 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment:  
Certified Hospitality & Tourism Management Professional
- Not counted towards Performance Acknowledgment: ServSafe Food Managers Certification<sup>1</sup>

**Available at:**

- North Side HS

The Lodging and Resort Management program of study introduces students to occupations and educational opportunities related to the logistical and operational management of lodging and resorts. This program of study also explores opportunities related to human resources, financial analysis, and marketing.



The Hospitality and Tourism Career Cluster® focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

Successful completion of the Lodging and Resort Management program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020

## COURSE DESCRIPTIONS FOR HOSPITALITY AND TOURISM CLASSES

<p><b>PRINCIPLES OF HOSPITALITY AND TOURISM AB (PRINHOSP AB)</b></p> <p>Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.</p>	<p><b>HT22201AB</b></p> <p>13022200 Grade level: 9 - 10 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Foundations of Restaurant Management and Culinary Arts Level One</i>, Pearson Education <u>Prerequisite(s):</u> None <i>Offered at: North Side, Polytechnic, South Hills, Trimble Tech, OD Wyatt</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF HOSPITALITY AND TOURISM AB (PRINHOSP AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HTH22201AB</b></p> <p>13022200 Grade level: 9 - 10</p>
<p><u>Instructional Material:</u> <i>Foundations of Restaurant Management and Culinary Arts Level One</i>, Pearson Education <u>Prerequisite(s):</u> None <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, OD Wyatt</i></p>	<p>HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><b>HOSPITALITY SERVICE/D AB (HOSPSRVS AB)</b></p> <p>Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.</p>	<p><b>HT22802AB</b></p> <p>13022800 Grade level: 11 - 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> <i>ICEV Family and Consumer Sciences Site</i>, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Hospitality <i>Offered only at: North Side</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS HOSPITALITY SERVICE/D AB (HOSPSRVS AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HTH22802AB</b></p> <p>13022800 Grade level: 11 - 12</p>
<p><u>Instructional Material:</u> <i>ICEV Family and Consumer Sciences Site</i>, CEV Multimedia Ltd. <u>Prerequisite(s):</u> Principles of Hospitality and Tourism <i>Offered only at: North Side</i></p>	<p>HS Credit(s): 2 College Hour(s): NA <b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN HOSPITALITY SERVICES/D AB (PRACHOS1 AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing culinary art-based workplace. Students are taught employability skills, including job specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Animation.</p>	<p><b>HT22902AB</b></p> <p>13022900 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Hospitality Service I <i>Offered only at: North Side</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN HOSPITALITY SERVICES/D AB (PRACHOS1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>HTH22902AB</b></p> <p>13022900 Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Hospitality Services I <i>Offered only at: North Side</i></p>	<p>HS Credit(s): 2 College Hour(s): NA <b>Tier II</b></p>

<b>PAID PRACTICUM IN HOSPITALITY SERVICES AB/EXTENDED (EXPRHOS1 AB)</b>	<b>HT22910AB</b>
<p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course provides unique opportunities for students to participate in work-based learning that combines classroom instruction with actual business and industry career experiences. integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of further enhancing the knowledge, skills, and industry-based experiences that students receive through workplace application. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	13022905 Grade level: 12 HS Credit(s): 3
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>Prerequisite(s):</u> Hospitality Services I  <i>Offered only at: North Side</i></p>	College Hour(s): NA <b>Tier III</b>
<b>HONORS PAID PRACTICUM IN HOSPITALITY SERVICES AB/EXTENDED (EXPRHOS1 AB/H)</b>	<b>HTH22910AB</b>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	13022905 Grade level: 12
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>Prerequisite(s):</u> Hospitality Services I  <i>Offered only at: North Side</i></p>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>INTRODUCTION TO CULINARY ARTS AB (INCULART AB)</b>	<b>HT22400AB</b>
<p>Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.</p>	13022550 Grade level: 9 -10 HS Credit(s): 1
<p><u>Instructional Material:</u> <i>Introduction to Culinary Arts, 3e</i>, Pearson Education  <u>Prerequisite(s):</u> Principles of Hospitality and Tourism  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	College Hour(s): NA <b>Tier III</b>
<b>HONORS INTRODUCTION TO CULINARY ARTS AB (INCULART AB)</b>	<b>HTH22400AB</b>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	13022550 Grade level: 9 -10
<p><u>Instructional Material:</u> <i>Introduction to Culinary Arts, 3e Student Edition</i>, Pearson Education,  <u>Prerequisite(s):</u> Principles of Hospitality and Tourism  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>CULINARY ARTS/D AB (CULARTS AB)</b>	<b>HT22602AB</b>
<p>Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking. Through both classroom and laboratory experience provided in an industrial kitchen laboratory in this double-period class, students develop skills for employment in the area of food production, management, and services. The course stresses operation and management of food service establishments, marketing strategies, quality food production skills, food presentation and service techniques. In this course, students will have the opportunity to take the ServSafe Food Safety Certification Exam that can count as a performance acknowledgement for their Business and Industry Endorsement. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.</p>	13022600 Grade level: 11 - 12 HS Credit(s): 2
<p><u>Instructional Material:</u> <i>The Culinary Professional, 3rd Edition</i>, Goodheart-Willcox Co.  <u>Prerequisite(s):</u> Introduction to Culinary Arts  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	College Hour(s): NA <b>Tier III</b>
<b>HONORS CULINARY ARTS/D AB (CULARTS AB/H)</b>	<b>HTH22602AB</b>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	13022600 Grade level: 11 – 12
<p><u>Instructional Material:</u> <i>The Culinary Professional, 3rd Edition</i>, Goodheart-Willcox Co.  <u>Prerequisite(s):</u> Principles of Hospitality and Tourism and Restaurant Management  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>ADVANCED CULINARY ARTS/D AB (ADVCULARTS AB)</b>	<b>HT22603AB</b>
<p>Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment. Students can pursue a ServSafe certification, a Texas Culinary Specialist Certification, or any other appropriate industry certification to count toward their performance acknowledgement for their Business and Industry Endorsement.</p>	13022650 Grade level: 12 HS Credit(s): 2



<p><u>Instructional Material:</u> ICEV Family and Consumer Sciences Site, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Culinary Arts I  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS ADVANCED CULINARY ARTS/D AB (ADVCULARTS AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> ICEV Family and Consumer Sciences Site, CEV Multimedia Ltd.  <u>Prerequisite(s):</u> Culinary Arts I  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p><b>HTH22603AB</b>  13022650  Grade level: 12  HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PAID PRACTICUM IN CULINARY ARTS AB/EXTENDED (EXPRCUL1 AB)</b></p> <p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course continues in-depth experiences in food service and management. This classroom part of this course should be taught in an industrial kitchen laboratory so students can explore principles of entrepreneurship and develop the professional skills needed for careers such as chef, hotel/ motel management, and food service entrepreneur. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>Prerequisite(s):</u> Advanced Culinary Arts  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p><b>HT22710AB</b>  13022705  Grade level: 12  HS Credit(s): 3</p>
<p><b>HONORS PAID PRACTICUM IN CULINARY ARTS AB/EXTENDED (EXPRCUL1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>Prerequisite(s):</u> Advanced Culinary Arts  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>FOOD SCIENCE AB (FOODSCI AB)</b></p> <p>In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Upon completion of this course, students will be prepared to take the ServSafe Food Safety Certification Exam. The course should be taught in a kitchen laboratory with some industrial equipment to provide the students with real-world experience in commercial foods.</p> <p><u>Instructional Material:</u> <i>Principles of Food Science</i>, Goodheart-Willcox Co. ISBN#: 9781683112365  <u>Prerequisite(s):</u> Three units of science, including chemistry and biology, and Culinary Arts I or Hospitality Services  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p><b>HT23002AB</b>  13023000  Grade level: 11 - 12  HS Credit(s): 1</p>
<p><b>HONORS FOOD SCIENCE AB (FOODSCI AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Principles of Food Science</i>, Goodheart-Willcox Co. ISBN#: 9781683112365  <u>Prerequisite(s):</u> Three units of science, including chemistry and biology, and Culinary Arts I or Hospitality Services  <i>Offered only at: North Side, Polytechnic, South Hills, Trimble Tech, and OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>DUAL CREDIT CULINARY ARTS A DC (CULARTS A DC)</b>  <b>TCC Course: (CHEF 1305) Sanitation &amp; Safety</b>  <i>*Courses may change depending on availability</i></p> <p>In this dual credit 1-semester course, students will engage in the study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illnesses caused by food contamination (Hazard Analysis Critical Control Points); and workplace safety standards. Students will identify causes and prevention procedures for food-borne illness, intoxication, and infection; discuss personal hygiene and safety food handling procedures; describe food storage and refrigeration techniques; explain sanitation of dishes, equipment and kitchens including cleaning material, garbage, and refuse disposal; discuss Occupational Safety and Health Administration (OSHA) requirements and workplace safety programs.</p> <p><u>Instructional Material:</u> <i>ServSafe Manager, 7<sup>th</sup> Ed. (w/Access Code and myservsafelab)</i>, Prentice Hall. ISBN#: 9780134772899. Contact Career and Technical Education Department for additional related materials.  <u>Prerequisite(s):</u> Introduction to Culinary Arts  <u>TCC Prerequisite(s):</u> TSI  <i>Course taught by an approved embedded instructor.</i>  <i>Offered only at: North Side</i></p>	<p><b>HTD22602A</b>  13022600  Grade level: 11 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>ServSafe Manager, 7<sup>th</sup> Ed. (w/Access Code and myservsafelab)</i>, Prentice Hall. ISBN#: 9780134772899. Contact Career and Technical Education Department for additional related materials.  <u>Prerequisite(s):</u> Introduction to Culinary Arts  <u>TCC Prerequisite(s):</u> TSI  <i>Course taught by an approved embedded instructor.</i>  <i>Offered only at: North Side</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>

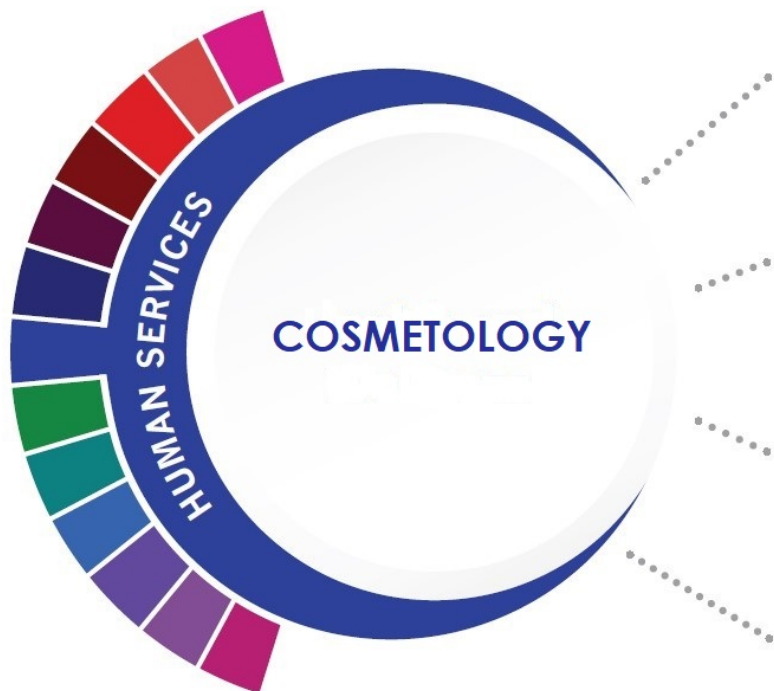
<b>DUAL CREDIT ADVANCED CULINARY ARTS/d A DC (ADVCULARTS A DC)</b> <b>TCC Course: (RSTO 1304 + Lab) Dining Room Service</b> *Courses may change depending on availability	<b>HTD22603A</b>
<p>In this dual credit 1-semester course, students will apply the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel. Students will identify and utilize equipment and supplies used in table service; specify the types of table service and the serving sequence for each type of service; properly prepare dining room and side station for service; explain the relationship of wait staff to customers and their perception of the establishment; and employ principles of dining room organization, scheduling, and management of food service personnel.</p>	13022650 Grade level: 12 HS Credit(s): 1
<p><u>Instructional Material:</u> <i>Remarkable Service, CIA, John Wiley &amp; Sons. ISBN#: 9781118116876</i>  Contact Career and Technical Education Department for additional related materials.  <u>Prerequisite(s):</u> Dual Credit Culinary Arts A DC  <u>TCC Prerequisite(s):</u> TSI  <i>Course taught by an approved embedded instructor.</i>  <i>Offered only at: North Side</i></p>	College Hour(s): 3 <b>Tier I</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	12701121 Grade level: 11-12 HS Credit(s): 2
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	12701141 Grade level: 11-12 HS Credit(s): 3
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	12701122 Grade level: 11-12 HS Credit(s): 2
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b>	<b>CP01402AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	12701132 Grade level: 11-12 HS Credit(s): 3
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	College Hour(s): NA <b>Tier III</b>



## **Human Services**

### **Cosmetology**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

**9th Principles of Cosmetology Design and Color Theory:**  
HV25100 AB OR HVH25100 AB

**10th Introduction to Cosmetology:**  
HV25102 AB OR HVH25102 AB

**11th Cosmetology I/Cosmetology I Lab/t<sup>2</sup>:**  
HV25210 AB OR HVH25210 AB  
**OR**  
**Cosmetology I/d<sup>2</sup>:**  
HV25202 AB OR HVH25202 AB

**12th Cosmetology II/Cosmetology II Lab/t<sup>1</sup>:**  
HV25310 AB OR HVH25310 AB  
**OR**  
**Cosmetology II/d<sup>1</sup>:**  
HV25302 AB OR HVH25302 AB  
**Career Preparation for Programs of Study:**  
CPPS 1 AB  
**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- **Microbiology and Safety for Cosmetology:** HV25402 AB OR HVH25402 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Cosmetology Operator License<sup>1</sup>
- Not Counted towards Performance Acknowledgment: OSHA 10-Hour General Industry Certification<sup>2</sup>

**Available At:**

- Dunbar HS
- North Side HS
- Trimble Technical HS

Cosmetology is an extended course of study that enables students to become licensed cosmetologists through Texas Department of Licensing and Regulation (TDLR). Cosmetology is one program of study that allows students to earn an industry certificate that launches them into a professional career immediately, yet also specifies rigorous core curricula that prepares the student to be successful in a post-secondary learning environment



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.

Successful completion of the Cosmetology and Personal Care Services program of study will fulfill requirements of the Public Service Endorsement. Regionally approved Program of Study. Revised – July 2020

## COURSE DESCRIPTIONS FOR HUMAN SERVICES CLASSES

<p><b>PRINCIPLES OF COSMETOLOGY DESIGN AND COLOR THEORY AB (PRINCDCT AB)</b></p> <p>In Principles of Cosmetology Design and Color Theory, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.</p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Registration fee \$25 that is payable to the Texas Cosmetology Commission (must be paid the first week of school). The \$25 fee registers students with the Texas Cosmetology Commission to allow the clock hours.  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HV25100AB</b></p> <p>13025050            Grade level: 9 - 10            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF COSMETOLOGY DESIGN AND COLOR THEORY AB (PRINCDCT AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Registration fee \$25 that is payable to the Texas Cosmetology Commission (must be paid the first week of school). The \$25 fee registers students with the Texas, Cosmetology Commission to allow the clock hours  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HVH25100AB</b></p> <p>13025050            Grade level: 9 – 10            HS Credit(s): 0.5            College Hour(s): NA  <b>Tier II</b></p>
<p><b>INTRODUCTION TO COSMETOLOGY AB (INTCOSMO AB)</b></p> <p>This course introduces skills that may lead to a lifetime career in cosmetology. Students explore areas such as bacteriology, sterilization and sanitation, hair styling, manicuring, shampooing and the principles of hair cutting, hair styling, hair coloring, skin care, and facial makeup. The student researches careers in the personal care services industry. To prepare for success, students must have skills relative to this industry, as well as academic knowledge and skills. Students may begin to earn clock hours needed to prepare for the Texas Department of Licensing and Regulation Examination.</p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Principles of Cosmetology Design and Color Theory or Principles of Business, Marketing, and Finance  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HV25102AB</b></p> <p>13025100            Grade level: 10            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS INTRODUCTION TO COSMETOLOGY AB (INTCOSMO AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Principles of Cosmetology Design and Color Theory or Principles of Business, Marketing, and Finance  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HVH25102AB</b></p> <p>13025100            Grade level: 10            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>COSMETOLOGY I/D AB (COSMET1 AB)</b></p> <p>The Cosmetology I course provides students classroom and lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned with little to no guidance. The course meets licensing and regulation requirements for licensure upon passing the Texas Department of Licensing and Regulation Examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills is included.</p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Introduction to Cosmetology  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HV25202AB</b></p> <p>13025200            Grade level: 11            HS Credit(s): 2</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS COSMETOLOGY I/D AB (COSMET1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Introduction to Cosmetology  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HVH25202AB</b></p> <p>13025210            Grade level: 11            HS Credit(s): 2            College Hour(s): NA  <b>Tier II</b></p>
<p><b>COSMETOLOGY I/ COSMETOLOGY I LAB/t AB (COSLAB1 AB)</b></p> <p><i>Instructional Material:</i> <i>Milady Standard Cosmetology</i>; Cengage  <i>Prerequisite(s):</i> Introduction to Cosmetology  <i>Offered only at: Dunbar, North Side, and Trimble Tech</i></p>	<p><b>HV25210AB</b></p> <p>College Hour(s): NA  <b>Tier III</b></p>

<b>HONORS COSMETOLOGY I/ COSMETOLOGY I LAB/t AB (COSLAB1 AB)</b>	<b>HVH25210AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13025210 Grade level: 11
<u>Instructional Material:</u> <i>Milady Standard Cosmetology</i> ; Cengage	HS Credit(s): 3
<u>Prerequisite(s):</u> Introduction to Cosmetology	College Hour(s): NA
<u>Offered only at:</u> <i>Dunbar, North Side, and Trimble Tech</i>	<b>Tier II</b>
<b>MICROBIOLOGY AND SAFETY FOR COSMETOLOGY CAREERS AB (MICROS AB)</b>	<b>HV25402AB</b>
Students who enroll in Microbiology and Safety for Cosmetology Careers will receive instruction in the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, identification of microorganisms, drug resistant organisms, and emerging diseases. Additionally, students will explore and apply concepts as they apply to the safety and health of individuals pursuing a career in cosmetology services. Students may be provided with an opportunity to attain the Occupational Safety and Health Administration (OSHA) 10-hour safety training certification. This course also includes an opportunity for students to solve an in-depth analytical problem concerning occupational health and safety in cosmetology. This course is a co-requisite to Cosmetology I.	N1302540 Grade level: 11 HS Credit(s): 1
<u>Instructional Material:</u> <i>Milady Standard Cosmetology</i> ; Cengage	College Hour(s): NA
<u>Prerequisite(s):</u> Introduction to Cosmetology	<b>Tier III</b>
<u>Co-requisite:</u> Cosmetology I	
<u>Offered only at:</u> <i>Dunbar, North Side, and Trimble Tech</i>	
<b>HONORS MICROBIOLOGY AND SAFETY FOR COSMETOLOGY CAREERS AB (MICROS AB/H)</b>	<b>HVH25402AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302540 Grade level: 11
<u>Instructional Material:</u> Contact Career and Technical Education for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> Introduction to Cosmetology	College Hour(s): NA
<u>Co-requisite:</u> Cosmetology I	<b>Tier II</b>
<u>Offered only at:</u> <i>Dunbar, North Side, and Trimble Tech</i>	
<b>COSMETOLOGY II/D AB (COSMET2 AB)</b>	<b>HV25302AB</b>
The Cosmetology II course provides students classroom and lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in Cosmetology I with little to no guidance. The course meets licensing and regulation requirements for licensure upon passing the Texas Department of Licensing and Regulation Examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.	13025300 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> <i>Milady Standard Cosmetology</i> ; Cengage	College Hour(s): NA
<u>Prerequisite(s):</u> Cosmetology I	<b>Tier III</b>
<u>Offered only at:</u> <i>Dunbar, North Side, and Trimble Tech</i>	
<b>HONORS COSMETOLOGY II/D AB (COSMET2 AB/H)</b>	<b>HVH25302AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13025300 Grade level: 12
<u>Instructional Material:</u> <i>Milady Standard Cosmetology</i> ; Cengage	HS Credit(s): 2
<u>Prerequisite(s):</u> Cosmetology I	College Hour(s): NA
<u>Offered only at:</u> <i>Dunbar, North Side, and Trimble Tech</i>	<b>Tier II</b>
<b>COSMETOLOGY II/COSMETOLOGY II LAB/t AB (COSLAB2 AB)</b>	<b>HV25310AB</b>
The Cosmetology II Lab course provides students additional classroom and lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students will be expected to demonstrate mastery in conducting the skills and techniques learned in Cosmetology I with little to no guidance. The course meets licensing and regulation requirements for licensure upon passing the Texas Department of Licensing and Regulation Examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.	13025310 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> <i>Milady Standard Cosmetology</i> ; Cengage;	College Hour(s): NA
<u>Prerequisite(s):</u> Cosmetology I	<b>Tier III</b>
<u>Offered only at:</u> <i>Dunbar, North Side, Trimble Tech</i>	
<b>HONORS COSMETOLOGY II/COSMETOLOGY II LAB/t AB (COSLAB2 AB)</b>	<b>HVH25310AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13025310 Grade level: 12
<u>Instructional Material:</u> <i>Milady Standard Cosmetology</i> ; Cengage	HS Credit(s): 3
<u>Prerequisite(s):</u> Cosmetology I	College Hour(s): NA
<u>Offered only at:</u> <i>Dunbar, North Side, Trimble Tech</i>	<b>Tier II</b>

<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701141 Grade level: 11-12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA Tier III</p>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701122 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b>	<b>CP01402AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701132 Grade level: 11-12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>



## **Information Technology**

**Information Technology Support and Services**

**Networking Systems**

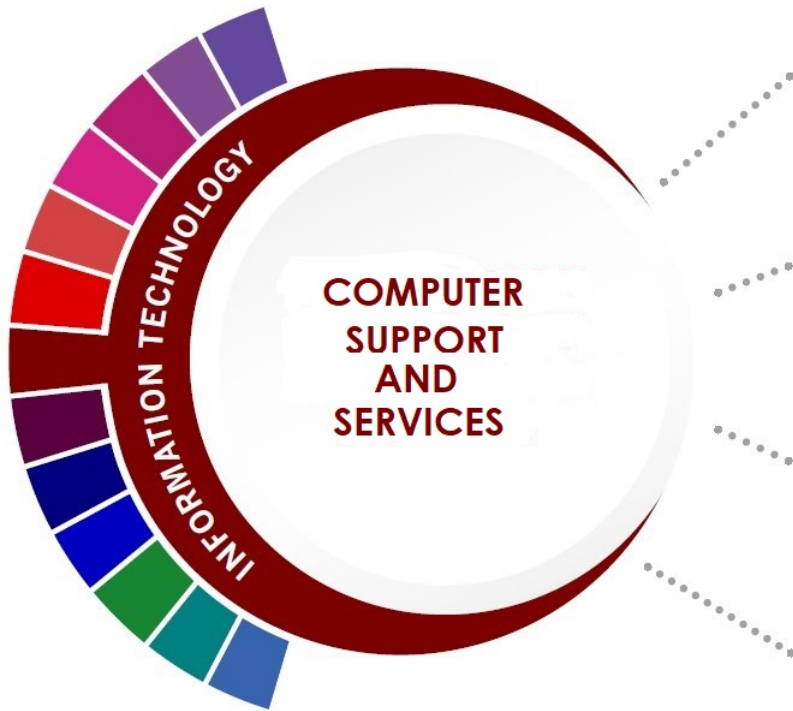
**Cybersecurity**

**Programming and Software Development**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



## Courses



**9th Principles of Information Technology:**  
IT27201 AB OR ITH27201 AB

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**10th Computer Maintenance:**  
IT27302 AB OR ITH27302 AB

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**11th Computer Technician Practicum/d1:**  
IT27502 AB OR ITH27502 AB

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**Unpaid Practicum in Information Technology/d<sup>2</sup>:**

IT27202 AB OR ITH27202 AB  
OR

**Paid Practicum of Information Technology<sup>2</sup>:**

IT27210 AB OR ITH27210 AB  
OR

**12th Career Preparation for Programs of Study:** CPPS 1 AB  
OR

**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB  
OR

**Independent Study in Technology Applications:** 2144AB OR 2146AB OR 2148AB

### Enrichment Courses:

- N/A

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: CompTIA IT Fundamentals+<sup>1</sup>; CompTIA A+<sup>2</sup>
- Not Counted Towards Performance Acknowledgment: N/A

### Available at:

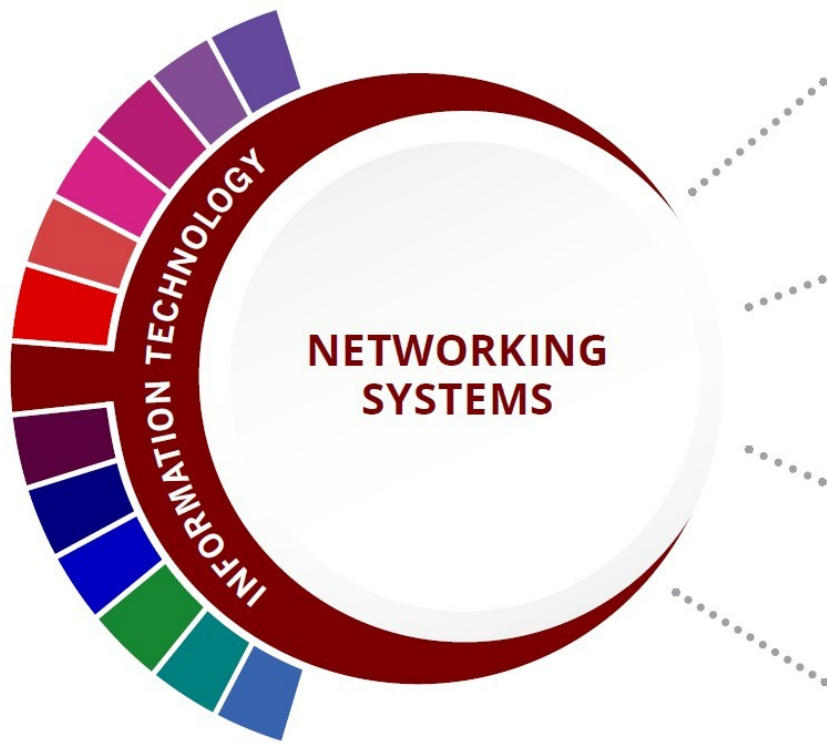
- Polytechnic HS
- South Hills HS
- Trimble Technical HS
- Western Hills HS

The Information Technology Computer Support and Services program of study explores the occupations and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study may also include analyzing user requirements and problems to automate or improve existing systems and review computer system capabilities. This program of study may also include exploration into the research, design, or testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.



The Information Technology (IT) Career Cluster® focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services

Successful completion of the Information Technology Support and Services program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020



**Courses**

**9th** **Principles of Information Technology:**  
IT27201 AB OR ITH27201 AB

**10th** **Internetworking Technologies I:**  
IT28012 AB OR ITH28012 AB

**11th** **Internetworking Technologies II<sup>1,2</sup>:**  
IT28022 AB OR ITH28022 AB

**Networking<sup>2</sup>:**  
IT27402 AB OR ITH27402 AB  
OR

**Paid Practicum in Information Technology<sup>2</sup>:**

IT27210 AB OR ITH27210 AB  
OR

**Unpaid Practicum in Information Technology/d<sup>2</sup>:**

**12th** IT27202 AB OR ITH27202 AB  
OR

**Career Preparation for Programs of Study<sup>2</sup>:** CPPS 1 AB  
OR

**Extended Career Preparation for Programs of Study<sup>2</sup>:** EXCPPS 1 AB  
OR

**Independent Study in Technology Applications<sup>2</sup>:** 2144AB OR 2146AB OR 2148AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Cisco 100-490 RSTech Supporting Cisco Routing and Switching Network Devices<sup>1</sup>, CompTIA Network+<sup>2</sup>
- Not Counted Towards Performance Acknowledgment: N/A

**Available at:**

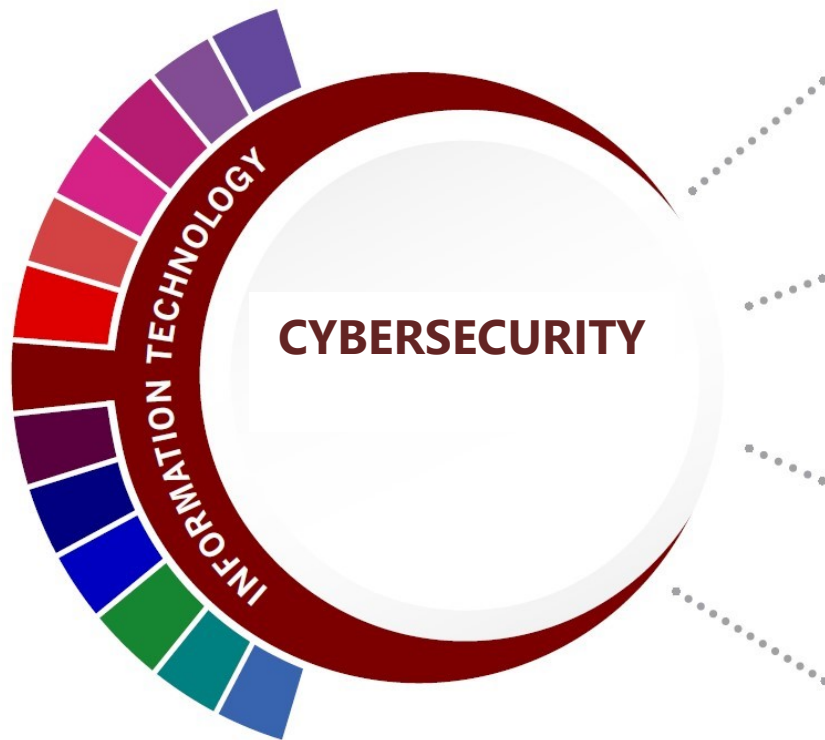
- Carter-Riverside HS

The Networking Systems program of study explores the 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 may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.



The Information Technology (IT) Career Cluster® focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services

Successful completion of the Networking Systems program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020



**Courses**

<b>9th</b>	<b>Principles of Information Technology:</b> IT27201AB OR ITH27201AB
<b>10th</b>	<b>Foundations of Cybersecurity:</b> IT27904AB OR ITH27904AB
<b>11th</b>	<b>Independent Study in Technology Applications<sup>1,2</sup>:</b> 2144AB OR 2146AB OR 2148AB
<b>12th</b>	<b>Cybersecurity Capstone (PLTW):</b> ITH27901AB (084-WLI only) OR <b>Cybersecurity Capstone:</b> IT27900AB OR ITH27900AB OR <b>Honors Unpaid Practicum in Information Technology/d<sup>3</sup>:</b> ITH27202AB OR <b>Honors Paid Practicum in Information Technology<sup>3</sup>:</b> ITH27210AB OR <b>Career Preparation for Programs of Study:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: CompTIA Security+<sup>1</sup>; ISACA Foundations of Cybersecurity Certificate<sup>2</sup>
- Not Counted Towards Performance Acknowledgment: N/A

**Available At:**

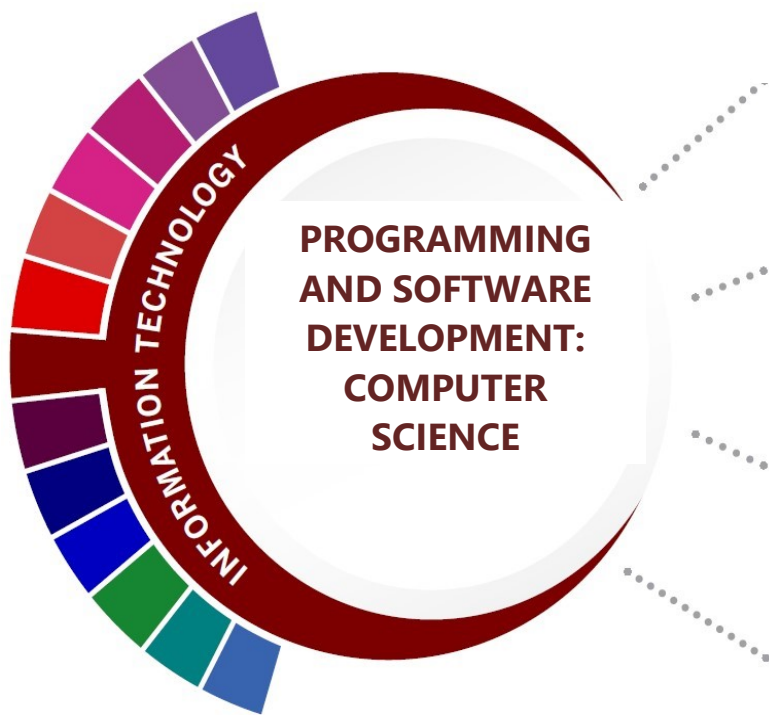
- Trimble Technical HS
- World Languages Institute (Cybersecurity Capstone only)

The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.



The Information Technology (IT) Career Cluster® focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services

Successful completion of the Cybersecurity program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020



**Courses**

<b>9th</b>	<b>Fundamentals of Computer Science</b> 2140AB OR 2150AB <b>Computer Science I:</b> 2151AB OR 2141ABH
<b>10th</b>	<b>Computer Science II<sup>2</sup>:</b> 2153AB OR 2143ABH OR <b>AP Computer Science Principles:</b> 2157AB
<b>11th</b>	<b>AP Computer Science Principles:</b> 2157AB OR <b>AP Computer Science A (MATH)<sup>1</sup>:</b> 2142AB OR WL2142AB OR M2142AB
<b>12th</b>	<b>AP Computer Science A (MATH)<sup>1</sup>:</b> 2142AB OR WL2142AB OR M2142AB OR <b>Computer Science III:</b> 2155AB OR 2145AB OR <b>Independent Study in Technology Applications:</b> 2144AB OR 2146AB OR 2148AB <b>OR</b> <b>Career Preparation for Programs of Study:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Independent Study in Technology Applications:** 2144AB, 2146AB, 2148AB


**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Information Technology Specialist: Java<sup>1</sup>; CodeHS Python Level 1 Certification<sup>2</sup>
- Not Counted Towards Performance Acknowledgment: N/A

**Available At:**

- Arlington Heights HS
- I.M. Terrell Academy HS
- Paschal HS
- World Languages Institute
- Trimble Technical HS

The Programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing 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 may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

 The Information Technology (IT) Career Cluster® focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services

Successful completion of the Programming and Software Development program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020

## COURSE DESCRIPTIONS FOR INFORMATION TECHNOLOGY CLASSES

<p><b>PRINCIPLES OF INFORMATION TECHNOLOGY AB (PRINIT AB)</b></p> <p>In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.</p> <p><u>Instructional Material:</u> <i>Principles of Information Technology – Texas Student Edition</i>, Pearson Education, Inc.,</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered only at: Carter-Riverside and World Languages Institute</i></p>	<p><b>IT27201AB</b></p> <p>13027200</p> <p>Grade level: 9 - 10</p> <p>HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF INFORMATION TECHNOLOGY AB (PRINIT AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Principles of Information Technology – Texas Student Edition</i>, Pearson Education, Inc.</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered only at: Carter-Riverside and World Languages Institute</i></p>	<p><b>ITH27201AB</b></p> <p>13027200</p> <p>Grade level: 9 - 10</p> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN INFORMATION TECHNOLOGY/D (PRACIT1 AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p> <p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i></p> <p><u>Prerequisite(s):</u> Internetworking Technologies I, Computer Science II or AP Computer Science</p> <p><i>Offered only at: Trimble Tech and Carter Riverside</i></p>	<p><b>IT27202AB</b></p> <p>13028000</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN INFORMATION TECHNOLOGY/D (PRACIT1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i></p> <p><u>Prerequisite(s):</u> Internetworking Technologies I, Computer Science II or AP Computer Science</p> <p><i>Offered only at: Trimble Tech and Carter Riverside</i></p>	<p><b>ITH27202AB</b></p> <p>13028000</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>PAID PRACTICUM IN INFORMATION TECHNOLOGY AB/EXTENDED (EXPRIT1 AB)</b></p> <p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. In this course, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting along with paid employment in the IT industry. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p> <p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i></p> <p><u>Prerequisite(s):</u> Internetworking Technologies I, Computer Science II or AP Computer Science A</p> <p><i>Offered only at: Trimble Tech and Carter Riverside</i></p>	<p><b>IT27210AB</b></p> <p>13028005</p> <p>Grade level: 12</p> <p>HS Credit(s): 3</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS PAID PRACTICUM IN INFORMATION TECHNOLOGY AB/EXTENDED (EXPRIT1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Contact Career and Technical Education Department for related materials</i></p> <p><u>Prerequisite(s):</u> Internetworking Technologies I, Computer Science II or AP Computer Science A</p> <p><i>Offered only at: Trimble Tech and Carter Riverside</i></p>	<p><b>ITH27210AB</b></p> <p>13028005</p> <p>Grade level: 12</p> <p>HS Credit(s): 3</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>

<b>NETWORKING AB (NTRK AB)</b>	<b>IT27402AB</b>
This course provides a basic introduction to telecommunications and the operational and technical aspects of network systems. Students explore the various types and uses of networks and online services. Students will learn to install, configure and troubleshoot basic networking hardware, protocols and services. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. This course prepares students for the Computer Technology Industry Association (CompTIA®) A+ Exam.	13027400 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Information Technology <i>Offered only at: Carter Riverside and Eastern Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS NETWORKING AB (NTRK AB/H)</b>	<b>ITH27402AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13027400 Grade level: 10 - 11 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Information Technology <i>Offered only at: Carter Riverside and Eastern Hills</i>	
<b>INTERNETWORKING TECHNOLOGIES I AB (INTNET1 AB)</b>	<b>IT28012AB</b>
Using a lab setting that corresponds to the workplace, students design local and wide-area networks. Students focus on network fundamentals, router theory, router technologies, network design, and network management. Students begin preparation for CISCO industry certification. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302803 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Information Technology <i>Teacher must be CISCO certified.</i> <i>Offered only at: Carter Riverside</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS INTERNETWORKING TECHNOLOGIES I AB (INTNET1 AB/H)</b>	<b>ITH28012AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302803 Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Information Technology <i>Teacher must be CISCO certified.</i> <i>Offered only at: Carter Riverside</i>	
<b>INTERNETWORKING TECHNOLOGIES II AB (INTNET2 AB)</b>	<b>IT28022AB</b>
This high-tech learning environment provides students the knowledge and experience to enter the workforce and/or further their education and training in the computer-networking field. Students work in a lab to prepare for CISCO industry certification. Teacher must be CISCO certified. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302804 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Internetworking Technologies I <i>Teacher must be CISCO certified.</i> <i>Offered only at: Carter Riverside</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS INTERNETWORKING TECHNOLOGIES II AB (INTNET2 AB/H)</b>	<b>ITH28022AB</b>
This high-tech learning environment provides students the knowledge and experience to enter the workforce and/or further their education and training in the computer-networking field. Students work in a lab to prepare for CISCO industry certification. Teacher must be CISCO certified. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1302804 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Internetworking Technologies I <i>Teacher must be CISCO certified.</i> <i>Offered only at: Carter Riverside</i>	College Hour(s): NA <b>Tier II</b>
<b>COMPUTER MAINTENANCE AB (COMPMTN AB)</b>	<b>IT27302AB</b>
In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.	13027300 Grade level: 10 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Information Technology <i>Offered only at: Eastern Hills, Polytechnic, South Hills, Trimble Tech and Western Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS COMPUTER MAINTENANCE AB/H (COMPMTN AB/H)</b>	<b>ITH27302AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13027300 Grade level: 10 HS Credit(s): 1 College Hour(s): NA
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Information Technology	

<i>Offered only at: Eastern Hills, Polytechnic, South Hills, Trimble Tech and Western Hills</i>	<b>Tier II</b>
<b>UNPAID COMPUTER TECHNICIAN PRACTICUM/d AB (COMPT1 AB)</b>	<b>IT27502AB</b>
In the Computer Technician Practicum, students will gain knowledge and skills in computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an instructor, with an industry mentor, or both.	13027500 Grade level: 11 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Computer Maintenance <i>Offered only at: Polytechnic, South Hills, Trimble Tech and Western Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID COMPUTER TECHNICIAN PRACTICUM/d AB/H (COMPT1 AB/H)</b>	<b>ITH27502AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13027500 Grade level: 11
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Computer Maintenance <i>Offered only at: Polytechnic, South Hills, Trimble Tech and Western Hills</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>UNPAID COMPUTER TECHNICIAN PRACTICUM II/d AB (COMPT2 AB)</b>	<b>IT27510AB</b>
<i>If taken a second time senior year</i>	
In the Computer Technician Practicum, students will gain knowledge and skills in computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an instructor, with an industry mentor, or both.	13027510 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Computer Maintenance <i>Offered only at: Polytechnic, South Hills, Trimble Tech and Western Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID COMPUTER TECHNICIAN PRACTICUM II d AB/H (COMPT2 AB/H)</b>	<b>ITH27510AB</b>
<i>If taken a second time senior year</i>	
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13027510 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Computer Maintenance <i>Offered only at: Polytechnic, South Hills, Trimble Tech and Western Hills</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>HONORS CTE PROJECT-BASED CAPSTONE AB (PROBS1 AB/H)</b>	<b>CPH01500AB</b>
Students will research a real-world problem and possible solutions throughout this course. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.	12701101 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Specific to program focus/pathway and is the previous course in the sequence. <i>Offered at: All high school campuses</i>	College Hour(s): NA <b>Tier II</b>
<b>FOUNDATIONS OF CYBERSECURITY AB (FODCYBER AB)</b>	<b>IT27904AB</b>
In the Foundations of Cybersecurity course, students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity. A variety of courses are available to students interested in this field. Foundations of Cybersecurity may serve as an introductory course in this field of study.	03580850 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> Texas - Foundations of Cybersecurity, CodeHS; Contact CTE Dept. for related materials <u>Prerequisite(s):</u> None <i>Offered at: Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS FOUNDATIONS OF CYBERSECURITY AB (FODCYBER AB/H)</b>	<b>ITH27904AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	03580850 Grade level: 9
<u>Instructional Material:</u> Texas - Foundations of Cybersecurity, CodeHS; Contact CTE Dept. for related materials <u>Prerequisite(s):</u> None <i>Offered at: Trimble Tech</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>

<b>COMPUTER SCIENCE I AB (TACS 1AB)</b>	<b>2151AB</b> <b>WL2151AB</b>
<p>Students develop a solid foundation in computer terminology and programming, binary and hexadecimal number systems, computer ethics (including copyright laws and privacy), and structured programming and programming techniques on personal computers are emphasized. Students will study and write programs utilizing the high-level languages FORTRAN, Pascal, and/ or C++. Students may be awarded one *LOTE credit (WL2151AB) or one elective credit (2151AB) for successful completion of this course.</p>	03580200 Grade level: 9 - 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Texas - Computer Science I, CodeHS  <u>Prerequisite(s) (for those pursuing the course as an elective or the Computer Science sequence):</u> None  <u>Prerequisite(s) (for those pursuing the Cybersecurity sequence):</u> Foundations of Cybersecurity  <i>Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, and Trimble Tech. Also offered as an elective course at select high schools.</i></p>	College Hour(s): NA <b>Tier III</b>
<b>HONORS COMPUTER SCIENCE I AB/H (TACS 1AB/H)</b>	<b>2141AB</b>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	03580200 Grade level: 9 - 12
<p><u>Instructional Material:</u> Texas - Computer Science I, CodeHS  <u>Prerequisite(s) (for those pursuing the Computer Science sequence):</u> None  <u>Prerequisite(s) (for those pursuing the Cybersecurity sequence):</u> Foundations of Cybersecurity  <i>Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, and Trimble Tech. Also offered as an elective course at select high schools.</i></p>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>COMPUTER SCIENCE II AB (TACS 2AB)</b>	<b>2153AB</b> <b>*WL2153AB</b>
<p>Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts. Students may be awarded one *LOTE credit (WL2143 AB) or one elective credit (2143 AB) for successful completion of this course.</p>	03580300 Grade level: 10 – 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Texas - Computer Science II, CodeHS  <u>Prerequisite(s):</u> Computer Science I  <i>Offered as an elective course at select high schools.</i></p>	College Hour(s): NA <b>Tier III</b>
<b>HONORS COMPUTER SCIENCE II AB/H (TACS 2AB/H)</b>	<b>2143AB</b> <b>*WL2143AB</b>
<p>In addition to the regular course curriculum, students will complete additional projects and activities related to the program of study. Students may be awarded one *LOTE credit (WL2143 AB) or one elective credit (2143 AB) for successful completion of this course.</p>	03580300 Grade level: 10 – 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Texas - Computer Science II, CodeHS  <u>Prerequisite(s):</u> Computer Science I  <i>Offered as an elective course at select high schools.</i></p>	College Hour(s): NA <b>Tier II</b>
<b>AP COMPUTER SCIENCE PRINCIPLES AB (APTACS PRIN)</b>	<b>2157AB</b> <b>WL2157AB</b>
<p>This course introduces students to the foundational ideas of computer science, while providing exposure to computational content, computational thinking skills, creative aspects of the field and their impact on the world. Students will be provided the opportunity to investigate the innovations in other fields of computing while examining the ethical implications of new computing technologies. The course follows the College Board AP® Computer Science Principles Curriculum Framework. Students may be awarded one *LOTE credit (WL2157 AB) or one elective credit (2157 AB) for successful completion of this course.</p>	A3580300 Grade level: 9 - 10 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials as well as approved materials provided by the AP College Board.  <u>Prerequisite(s) (for those pursuing the course as an elective or the Computer Science sequence):</u> None  <u>Prerequisite(s) (for those pursuing the Cybersecurity sequence):</u> Honors PLTW Computer Science Essentials or Foundations of Cybersecurity  <i>Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute. Also offered as an elective course at select high schools.</i></p>	College Hour(s): NA <b>Tier I</b>



<b>CYBERSECURITY CAPSTONE AB (CYBERCAP AB)</b>	<b>IT27900AB</b>
In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.	03580855 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Engineering Applications for Computer Science Principles <i>Offered at: Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS CYBERSECURITY CAPSTONE AB (CYBERCAP AB/H)</b>	<b>ITH27900AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	03580855 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Engineering Applications for Computer Science Principles <i>Offered at: Trimble Tech</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>HONORS UNPAID PRACTICUM IN INFORMATION TECHNOLOGY/D (PRACIT1 AB/H)</b>	<b>ITH27202AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study. See the course description for Unpaid Practicum in Information Technology located in the Career and Technical Education; Information Technology section.	13028000 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Engineering Applications for Computer Science Principles <i>Offered at: Trimble Tech</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN INFORMATION TECHNOLOGY/EXTENDED AB (EXPRIT1 AB/H)</b>	<b>ITH27210AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study. See the course description for Paid Practicum in Information Technology located in the Career and Technical Education; Information Technology section.	13028005 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Engineering Applications for Computer Science Principles OR AP Computer Science A <i>Offered at: Trimble Tech and World Languages Institute</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PLTW COMPUTER SCIENCE ESSENTIALS AB (PRINIT PLTW AB/H)</b>	<b>ITH27203AB</b>
Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13027200 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i> <u>Prerequisite(s):</u> None <i>Offered at: World Languages Institute</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PLTW CYBERSECURITY CAPSTONE AB (TACYBCAP AB/H)</b>	<b>ITH27901AB</b>
PLTW Cybersecurity gives students a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic thinking, computational thinking, and especially, outside-the-box thinking. Students explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security. The course contains the following units of study: Personal Security, System Security, Network Security, and Applied Cybersecurity. PLTW Cybersecurity is only offered as an honors course. Whether seeking a career in the growing field of cybersecurity or learning to defend their own personal data or a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyberworld. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	03580855 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i> <u>Prerequisite(s):</u> AP Computer Science A (PLTW) <i>Offered only at: World Languages Institute</i>	College Hour(s): NA <b>Tier II</b>
<b>AP COMPUTER SCIENCE A AB (APTACSA 1AB, APTACSAL AB, APTACSAM AB)</b>	<b>2142AB</b> <b>*WL2142AB</b> <b>**M2142AB</b>
AP Computer Science A is designed for qualified students in grades 10 - 12 who wish to complete the equivalent of a college introductory course in computer science. The course will focus on programming methodology, and procedural abstraction. It also includes the study of algorithms, data structures, and data abstraction, but covered in less depth than in the Computer Science III AB course. Students <b>must</b> be scheduled into two of the following three course numbers for this course: 2142 AB for an elective credit, M2142 AB for a math credit, and WL2142 AB for a LOTE credit. Students will be awarded two credits for successful completion of this course.	A3580120, A3580120, A3580110 Grade level: 10 - 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials as well as approved materials provided by the AP College Board <u>Prerequisite(s) (for those pursuing the Cybersecurity pathway):</u> AP Computer Science Principles <u>Prerequisite(s) (for those pursuing the Computer Science pathway):</u> AP Computer Science Principles	College Hour(s): NA <b>Tier I</b>

Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute

**COMPUTER SCIENCE III AB (TACS3AB)**

**2155 AB  
WL2155AB**

Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of advanced computer science data structures through the study of technology operations, systems, and concepts. Students may be awarded one \*LOTE credit (WL2155 AB) or one elective credit (2155 AB) for successful completion of this course.

03580350  
Grade level: 11 - 12  
HS Credit(s): 1

Instructional Material: Contact Career and Technical Education Department for related materials

College Hour(s): NA  
**Tier III**

Prerequisite(s): AP Computer Science A

Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute

**HONORS COMPUTER SCIENCE III AB/H (TACS3AB/H)**

**2145 AB  
WL2145AB**

In addition to the regular course curriculum, students learn advanced skills in programming languages and structured programming techniques through the use of advanced data structures and the discussion of memory allocation and de-allocation. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study. Students may be awarded one \*LOTE credit (WL2145 AB) or one elective credit (2145 AB) for successful completion of this course.

03580350  
Grade level: 11 - 12  
HS Credit(s): 1

Instructional Material: Contact Career and Technical Education Department for related materials

College Hour(s): NA  
**Tier II**

Prerequisite(s): AP Computer Science A

Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute

**HONORS DISCRETE MATHEMATICS FOR COMPUTER SCIENCE AB (TADISMA AB/H)**

**STH80370AB**

Discrete Mathematics for Computer Science provides the tools used in most areas of computer science. Exposure to the mathematical concepts and discrete structures presented in this course is essential in order to provide an adequate foundation for further study. Course topics are divided into six areas: sets, functions, and relations; basic logic; proof techniques; counting basics; graphs and trees; and discrete probability. Mathematical topics are interwoven with computer science applications to enhance the students' understanding of the introduced mathematics. Students will develop the ability to see computational problems from a mathematical perspective. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.

03580370  
Grade level: 12  
HS Credit(s): 1

Instructional Material: Contact Career and Technical Education Department for related materials

College Hour(s): NA  
**Tier II**

Prerequisite(s): AP Computer Science A

Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute

**HONORS INDEPENDENT STUDY IN TECHNOLOGY (FIRST TIME TAKEN) APPLICATIONS AB/H**

**2144AB**

This course is designed for qualified students in grades 10 - 12 who wish to complete the equivalent of a college introductory course in computer science. The course will focus on programming methodology and procedural abstraction. It also includes the study of algorithms, data structures, and data abstraction covered in substantial depth. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.

03580900  
Grade level: 11-12  
HS Credit(s): 1

Instructional Material: Contact Career and Technical Education Department for related materials

College Hour(s): NA  
**Tier I**

Prerequisite(s): Successful completion of AP Computer Science A

Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute

**HONORS INDEPENDENT STUDY IN TECHNOLOGY (SECOND TIME TAKEN) APPLICATIONS AB/H**

**2146AB**

This course is designed for qualified students in grades 10 - 12 who wish to complete the equivalent of a college introductory course in computer science. The course will focus on programming methodology and procedural abstraction. It also includes the study of algorithms, data structures, and data abstraction covered in substantial depth. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.

03581000  
Grade level: 11-12  
HS Credit(s): 1

Instructional Material: Contact Career and Technical Education Department for related materials

College Hour(s): NA  
**Tier I**

Prerequisite(s): Successful completion of AP Computer Science A

Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute

**HONORS INDEPENDENT STUDY IN TECHNOLOGY (THIRD TIME TAKEN) APPLICATIONS AB/H**

**2148AB**

This course is designed for qualified students in grades 10 - 12 who wish to complete the equivalent of a college introductory course in computer science. The course will focus on programming methodology and procedural

03581100  
Grade level: 11-12

abstraction. It also includes the study of algorithms, data structures, and data abstraction covered in substantial depth. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Successful completion of AP Computer Science A <i>Offered at: Arlington Heights, Carter-Riverside, Dunbar, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Trimble Tech, and World Languages Institute</i>	College Hour(s): NA <b>Tier I</b>
<b>FUNDAMENTALS OF COMPUTER SCIENCE AB (TAFCS AB)</b>	<b>2140AB</b>
Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.	03580140 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> Texas - Fundamentals of Computer Science, CodeHS. <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>HONORS FUNDAMENTALS OF COMPUTER SCIENCE AB/H (TAFCS AB/H)</b>	<b>2150AB</b>
In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study.	03580140 Grade level: 9
<u>Instructional Material:</u> Texas - Fundamentals of Computer Science, CodeHS <u>Prerequisite(s):</u> None	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
<u>This course is a paid capstone experience for CTE students who have found employment for the school year</u> within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701121 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA Tier III
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701141 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701122 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)</b>	<b>CP01402AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of	12701132 Grade level: 11-12

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16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

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HS Credit(s): 3

Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
**Tier III**



## **Law and Public Service**

### **Law Enforcement**

### **Legal Studies**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

**9<sup>th</sup> Principles of Law, Public Safety, Corrections, and Security:**  
LA29201 AB OR LAH29201 AB

**10<sup>th</sup> Law Enforcement I:**  
LA29302 AB OR LAH29302 AB

**11<sup>th</sup> Law Enforcement II<sup>1</sup>:**  
LA29402 AB OR LAH29402 AB

**12<sup>th</sup> Unpaid Practicum in Law, Public Safety, Corrections, and Security/d<sup>2</sup>:**  
LA30102 AB OR LAH30102 AB  
OR  
**Paid Practicum in Law, Public Safety, Corrections, and Security:**  
LA30110 AB OR LAH30110 AB  
OR  
**Career Preparation for Programs of Study:**  
CPPS 1 AB  
OR  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- **Forensic Science:** LA29502 AB OR LAH29502 AB
- **Criminal Investigations:** LA29300 AB OR LAH29300 AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: International Academy of Emergency Dispatch (IAED) Emergency Telecommunicator Certification<sup>1</sup>
- Not counted towards Performance Acknowledgment: OSHA 10-hour General Industry Certification<sup>2</sup>

**Available At:**

- Eastern Hills HS
- South Hills HS

The Law Enforcement program of study teaches students about the development of, adherence to, and protection of various branches of law. Students may learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.



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. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

Successful completion of the Law Enforcement program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



**Courses**

**9<sup>th</sup> Principles of Law, Public Safety, Corrections, and Security:**  
LA29201 AB OR LAH29201 AB

**10<sup>th</sup> Court Systems and Practices:**  
LA29602 AB OR LAH29602 AB

**11<sup>th</sup> Legal and Research Writing<sup>1</sup>:**  
LA03014 AB OR LAH03014 AB

**Unpaid Practicum in Law, Public Safety, Corrections, and Security/d:**  
LA30102 AB OR LAH30102 AB  
OR

**Paid Practicum in Law, Public Safety, Corrections, and Security:**  
LA30110 AB OR LAH30110 AB  
OR

**Career Preparation for Programs of Study: CPPS 1 AB**  
**OR**

**Extended Career Preparation for Programs of Study: EXCPPS 1 AB**

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Administrative Assisting or General Management (NOCTI) <sup>1</sup>
- Not counted towards Performance Acknowledgment: N/A

**Available At:**

- Eastern Hills HS

The Legal Studies program of study introduces students to the occupations and educational opportunities related to representing clients in criminal and civil litigation and other legal proceedings, as well as assisting lawyers and preparing legal documents. This program of study explores possible specializations in a single area of law.



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. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Service Endorsement.  
Revised - July 2020

## COURSE DESCRIPTIONS FOR LAW ENFORCEMENT & PUBLIC SAFETY CLASSES

<p><b>PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY AB (PRINLPCS AB)</b></p> <p>The course, Principles of Law and Public Safety, introduces students to professions in the courts and criminal justice system such as law enforcement, security, corrections, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, security, and corrections.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <i>Offered only at: Eastern Hills</i></p>	<p><b>LA29201AB</b></p> <p>13029200            Grade level: 9 - 10            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY AB (PRINLPCS AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <i>Course taught by locally certified gifted teacher.</i>  <i>Offered only at: Eastern Hills</i></p>	<p><b>LAH29201AB</b></p> <p>13029200            Grade level: 9 - 10            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>COURT SYSTEMS AND PRACTICES AB (COURTSP AB)</b></p> <p>Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Principles of Law and Public Safety  <i>Offered only at: Eastern Hills</i></p>	<p><b>LA29602AB</b></p> <p>13029600            Grade level: 10 - 12            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS COURT SYSTEMS AND PRACTICES AB (COURTSP AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Principles of Law and Public Safety  <i>Offered only at: Eastern Hills</i></p>	<p><b>LAH29602AB</b></p> <p>13029600            Grade level: 10 - 12            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>LAW ENFORCEMENT I AB (LAWENF1 AB)</b></p> <p>Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime. Students study of the nature of criminal law and its philosophical and historical development, with major definitions and concepts. Instruction includes the classifications of crimes and the elements of crimes and penalties using Texas statutes as illustrations.</p> <p><u>Instructional Material:</u> <i>Criminal Justice, Prentice Hall Publishing/Pearson Learning, ISBN#: 0321194608</i>  <u>Prerequisite(s):</u> Court Systems and Practices I  <i>Offered only at: Eastern Hills</i></p>	<p><b>LA29302AB</b></p> <p>13029300            Grade level: 11 - 12            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS LAW ENFORCEMENT I AB (LAWENF1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Criminal Justice, Prentice Hall Publishing/Pearson Learning</i>  <u>Prerequisite(s):</u> Court Systems and Practices I  <i>Offered only at: Eastern Hills</i></p>	<p><b>LAH29302AB</b></p> <p>13029300            Grade level: 11 - 12            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>LAW ENFORCEMENT II AB (LAWENF2 AB)</b></p> <p>Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.</p> <p><u>Instructional Material:</u> <i>Criminal Justice, Prentice Hall Publishing/Pearson Learning</i>  <u>Prerequisite(s):</u> Law Enforcement I  <i>Offered only at: Eastern Hills</i></p>	<p><b>LA29402AB</b></p> <p>13029400            Grade level: 12            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS LAW ENFORCEMENT II AB (LAWENF2 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Criminal Justice, Prentice Hall Publishing/Pearson Learning</i>  <u>Prerequisite(s):</u> Law Enforcement I  <i>Offered only at: Eastern Hills</i></p>	<p><b>LAH29402AB</b></p> <p>13029400            Grade level: 12            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>



<b>CRIMINAL INVESTIGATIONS AB (CRIM INV AB)</b>	<b>LA29300AB</b>
Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.	13029550 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Law and Public Safety <i>Offered only at: Eastern Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS CRIMINAL INVESTIGATIONS AB (CRIM INV AB/H)</b>	<b>LAH29300AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13029550 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Principles of Law and Public Safety <i>Offered only at: Eastern Hills</i>	College Hour(s): NA <b>Tier II</b>
<b>FORENSIC SCIENCE AB (FORENSCI AB)</b>	<b>LA29502AB</b>
Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.	13029500 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Biology and Chemistry	College Hour(s): NA <b>Tier III</b>
<b>HONORS FORENSIC SCIENCE AB (FORENSCI AB/H)</b>	<b>LAH29502AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13029500 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Biology and Chemistry	College Hour(s): NA <b>Tier II</b>
<b>UNPAID PRACTICUM IN LAW AND PUBLIC SAFETY/D AB (PRACTLPCS AB)</b>	<b>LA30102AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. The double-period practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Law and Public Safety cluster. The unpaid practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The student documents technical knowledge and skills in an updated professional portfolio that includes licensures or certifications; awards and scholarships; examples of extended learning experiences such as community service and active participation in career and technical student organizations and professional organizations; an updated resume; samples of work; and evaluations from the practicum supervisor. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.	13030100 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Completion of two courses in this career focus <i>Offered only at: Eastern Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID PRACTICUM IN LAW AND PUBLIC SAFETY/D AB (PRACTLPCS AB/H)</b>	<b>LAH30102AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13030100 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Completion of two courses in this career focus <i>Offered only at: Eastern Hills</i>	College Hour(s): NA <b>Tier II</b>
<b>PAID PRACTICUM IN LAW AND PUBLIC SAFETY AND SECURITY/EXTENDED AB (EXPRLPS1 AB)</b>	<b>LA30110AB</b>
The practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses in the Law and Public Safety cluster. This course is designed to give students supervised practical application of previously studied knowledge and skills. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one	13030105 Grade level: 12 HS Credit(s): 3

class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.	
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Completion of two courses in this career focus <i>Offered only at: Eastern Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS PAID PRACTICUM IN LAW AND PUBLIC SAFETY AND SECURITY/EXTENDED AB (EXPLPS1 AB/H)</b>	<b>LAH30110AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13030105 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Completion of two courses in this career focus <i>Offered only at: Eastern Hills</i>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>LEGAL AND RESEARCH WRITING AB (LEGRW AB)</b>	<b>LA03014AB</b>
Legal Research and Writing provides an introduction into the study and practice of legal writing and research. This course is designed to introduce students to the methods and tools used to conduct legal research, develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study U.S. Constitutional law, and prepare for appellate argument(s).	N1303014 Grade level: 11 HS Credit(s): 1
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: Eastern Hills</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS LEGAL AND RESEARCH WRITING AB (LEGRW AB/H)</b>	<b>LAH03014AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1303014 Grade level: 11
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: Eastern Hills</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701121 Grade level: 11-12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701141 Grade level: 11-12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.	12701122 Grade level: 11-12 HS Credit(s): 2 College Hour(s): NA <b>Tier III</b>

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Instructional Material: Contact Career and Technical Education Department for related materials

Prerequisite(s): None

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**CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)**

**CP01402AB**

This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

12701132  
Grade level: 11-12  
HS Credit(s): 3

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Instructional Material: Contact Career and Technical Education Department for related materials

Prerequisite(s): None

College Hour(s): NA  
**Tier III**

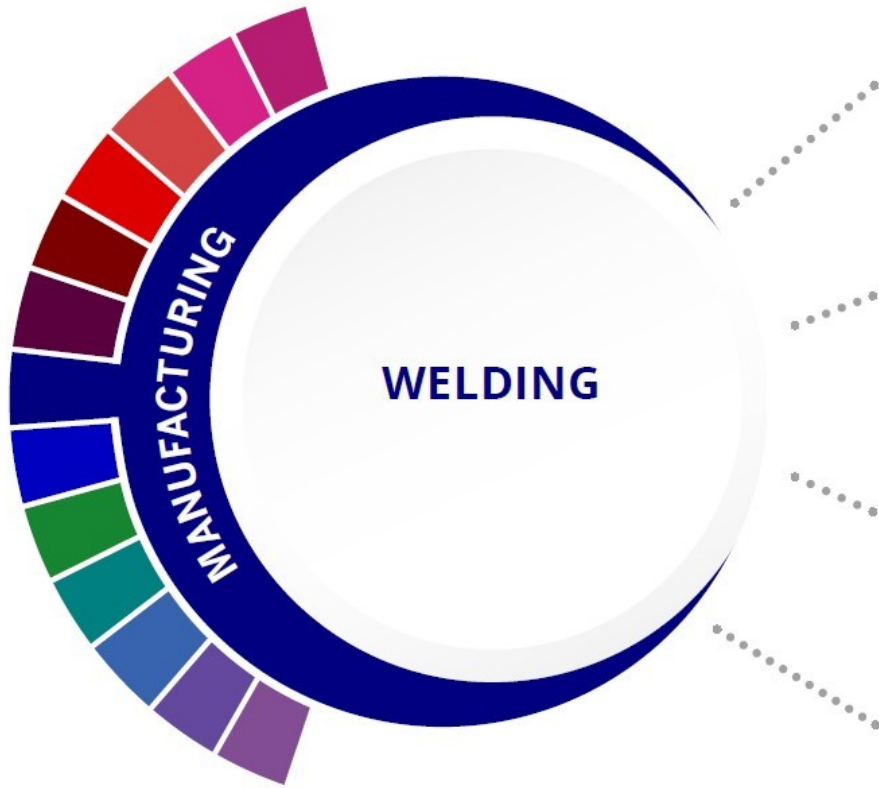


## **Manufacturing**

### **Welding**

### **Advanced Manufacturing and Machinery Mechanics**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

**9th**    **Introduction to Welding<sup>4</sup>:**  
MA32300AB OR MAH3200AB

**10th**    **Welding I/d<sup>4</sup>:**  
MA32302AB OR MAH32302AB

**11th**    **Welding II/d<sup>1,2,3</sup>:**  
MA32402AB OR MAH32402AB

**12th**    **Paid Practicum in Manufacturing:**  
MA33010AB OR MAH33010AB  
OR  
**Unpaid Practicum in Manufacturing/d:**  
MA33002AB OR MAH33002AB  
OR  
**Career Preparation for Programs of  
Study: CPPS 1 AB**  
OR  
**Extended Career Preparation for  
Programs of Study: EXCPPS 1 AB**

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: AWS D1.1 - Structural Welding<sup>1</sup>; AWS D9.1 - Sheet Metal<sup>2</sup>; and/or NCCER Welding Level I<sup>3</sup>; NCCER Core<sup>4</sup>
- Not Counted Towards Performance Acknowledgment: N/A

**Available At:**

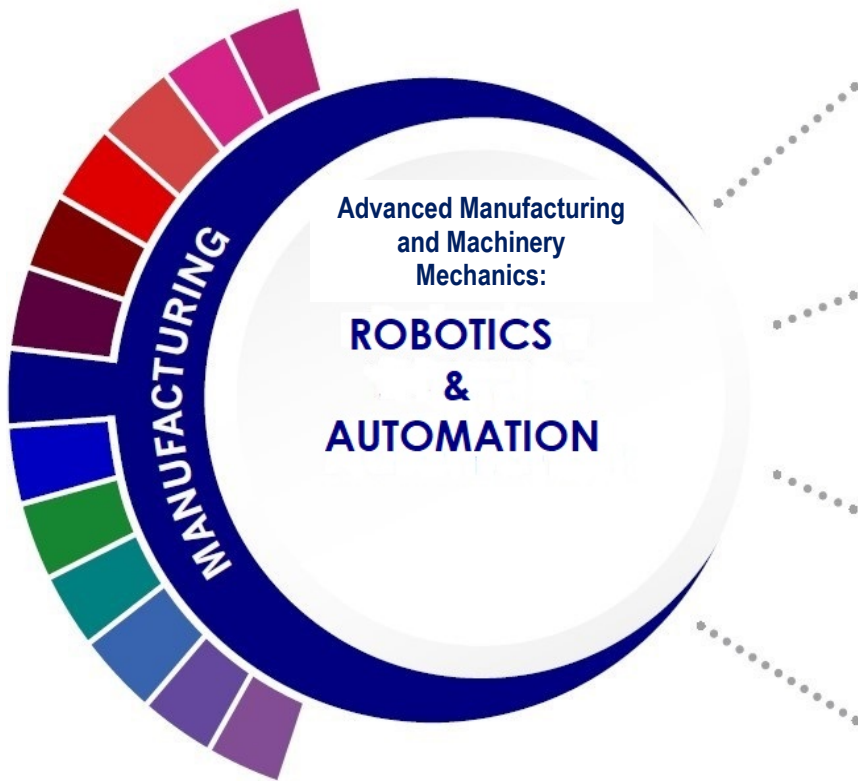
- Diamond Hill-Jarvis HS
- South Hills HS
- Southwest HS
- Trimble Technical HS

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. Students 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.



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 manufacturing/process engineering.

Successful completion of the Manufacturing Technology program of study will fulfill requirements of the Business and Industry Endorsement. Revised – July 2020



**Courses**

**9th Principles of Manufacturing<sup>2</sup>:**  
MA32201AB OR MAH32201AB

**10th Manufacturing Robotics I<sup>1</sup>:**  
ST37002AB OR STH37002AB

**11th Manufacturing Robotics II<sup>2</sup>:**  
ST37003AB OR STH37003AB

**11th Programmable Logic Controller I<sup>3</sup>:**  
MA03689AB OR MAH03689AB

**12th Paid Practicum in Manufacturing:**  
MA33010AB OR MAH33010AB  
OR  
**Unpaid Practicum in Manufacturing/d:**  
MA33002AB OR MAH33002AB  
OR  
**Career Preparation for Programs of Study:** CPPS 1 AB  
OR  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: FANUC Robot Operator I<sup>2</sup>; SACA C-101 Industry 4.0 Associate - Basic Operations<sup>3</sup>
- Not Counted Towards Performance Acknowledgment: OSHA 10-Hour General Industry<sup>1</sup>

**Available At:**

- Trimble Technical HS

The Advanced Manufacturing and Machinery Mechanics program of study focuses on the assembly, operation, maintenance, and repair of electromechanical equipment or devices. CTE learners may work in a variety of mechanical fields, gaining knowledge and experience in robotics, refinery and pipeline systems, deep ocean exploration, or hazardous waste removal. CTE concentrators may work in a variety of fields of engineering.



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 manufacturing/process engineering.

Successful completion of the Advanced Manufacturing and Machinery program of study will fulfill the requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020

## COURSE DESCRIPTIONS FOR MANUFACTURING CLASSES

<p><b>INTRODUCTION TO WELDING AB (INTRWELD AB)</b></p> <p>Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development.</p> <p><u>Instructional Material:</u> NCCER- <i>Welding, Texas Edition 2017 Student Edition</i>, Pearson Education  <u>Prerequisite(s):</u> None  <i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p><b>MA32300AB</b></p> <p>13032250            Grade level: 9-10            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS INTRODUCTION TO WELDING AB (INTRWELD AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> NCCER- <i>Welding, Texas Edition 2017 Student Edition</i>, Pearson Education Inc.  <u>Prerequisite(s):</u> None  <i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p><b>MAH32300AB</b></p> <p>13032250            Grade level: 9 - 10            HS Credit(s): 1            College Hour(s): NA  <b>Tier II</b></p>
<p><b>WELDING I/D AB (WELD 1AB)</b></p> <p>Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills as students apply and transfer their understanding and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.</p> <p><u>Instructional Material:</u> NCCER- <i>Welding, Texas Edition 2017 Student Edition</i>, Pearson Education Inc.  <u>Prerequisite(s):</u> Introduction to Welding  <i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p><b>MA32302AB</b></p> <p>13032300            Grade level: 10 - 11            HS Credit(s): 2</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS WELDING I/D AB (WELD 1AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> NCCER- <i>Welding, Texas Edition 2017 Student Edition</i>, Pearson Education Inc.  <u>Prerequisite(s):</u> Introduction to Welding  <i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p><b>MAH32302AB</b></p> <p>13032300            Grade level: 10 - 11            HS Credit(s): 2            College Hour(s): NA  <b>Tier II</b></p>
<p><b>WELDING II/D AB (WELD 2AB)</b></p> <p>Welding II builds on knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.</p> <p><u>Instructional Material:</u> NCCER- <i>Welding, Texas Edition 2017</i>, Pearson Education Inc.  <u>Prerequisite(s):</u> Welding I/d  <i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p><b>MA32402AB</b></p> <p>13032400            Grade level: 11 - 12            HS Credit(s): 2</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS WELDING II/D AB (WELD 2AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> NCCER- <i>Welding, Texas Edition 2017</i>, Pearson Education Inc.  <u>Prerequisite(s):</u> Welding I/d  <i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p><b>MAH32402AB</b></p> <p>13032400            Grade level: 11 - 12            HS Credit(s): 2            College Hour(s): NA  <b>Tier II</b></p>
<p><b>PAID PRACTICUM IN MANUFACTURING/EXTENDED AB (EXPRMAN1 AB)</b></p> <p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>MA33010AB</b></p> <p>13033005            Grade level: 12            HS Credit(s): 3</p>

<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials</p> <p><u>Prerequisite(s):</u> Welding II/d</p> <p><i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS PAID PRACTICUM IN MANUFACTURING/EXTENDED AB (EXPRMAN1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>MAH33010AB</b></p> <p>13033005</p> <p>Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials</p> <p><u>Prerequisite(s)</u> (For Welding): Welding II/d AB</p> <p><u>Prerequisite(s)</u> (For Manufacturing P-Tech): Previous P-TECH Manufacturing coursework notated on crosswalk</p> <p><i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Technical, and Dunbar (P-Tech)</i></p>	<p>HS Credit(s): 3</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>UNPAID PRACTICUM IN MANUFACTURING AB/D (PRACMANU AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. In the Practicum in Manufacturing, students will apply the knowledge and manufacturing skills learned in their pre-requisite courses that are essential to prepare students for success. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.</p>	<p><b>MA33002AB</b></p> <p>13033000</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials</p> <p><u>Prerequisite(s):</u> Welding II/d</p> <p><i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN MANUFACTURING AB/D (PRACMANU AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>MAH33002AB</b></p> <p>13033000</p> <p>Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials</p> <p><u>Prerequisite(s)</u> (For Welding): Welding II/d AB</p> <p><u>Prerequisite(s)</u> (For Manufacturing P-Tech): Previous P-TECH Manufacturing coursework notated on crosswalk</p> <p><i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Technical, and Dunbar (P-Tech)</i></p>	<p>HS Credit(s): 2</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>PRINCIPLES OF MANUFACTURING AB (MA32201 AB)</b></p> <p>In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers.</p>	<p><b>MA32201AB</b></p> <p>13032200</p> <p>Grade level: 9</p> <p>HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Amatrol</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>HONORS PRINCIPLES OF MANUFACTURING AB (MA32201 AB)</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p>	<p><b>MAH32201AB</b></p> <p>13032200</p> <p>Grade level: 9</p>
<p><u>Instructional Material:</u> Amatrol</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered only at: Trimble Tech</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>MANUFACTURING ROBOTICS I AB (MANROBOT 1AB)</b></p> <p>In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.</p>	<p><b>MA37002AB</b></p> <p>13037000</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Amatrol</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered at: Trimble Tech</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS MANUFACTURING ROBOTICS I AB (MANROBOT 1AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>MAH37002AB</b></p> <p>13037000</p> <p>Grade level: 10-12</p>
<p><u>Instructional Material:</u> Amatrol</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered at: Trimble Tech</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>



<p><b>PROGRAMMABLE LOGIC CONTROLLER I</b></p> <p>Programmable Logic Controller I is a course designed to introduce students to the function and operation of Programmable Logic Controllers (PLC) through academic and applied instruction. Students will be introduced to relevant terminology, the components that make up a PLC, how PLC communicates with external components and other concepts relating to the use of PLC's in the manufacturing industry. Students will participate in structured, applied learning exercises taken from existing PLC applications. Students will also learn how to read ladder logic diagrams and ultimately write their first program. This course is recommended for students in grade 10 through 12. The central focus of this course is for students to gain an understanding of how programmable logic controllers work and how they are used in automated industries.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>Prerequisite(s):</u> Robotics I  <i>Offered only at: Trimble Tech</i></p>	<p><b>MA03689AB</b></p> <p>N1303689  Grade level: 10-12  HS Credit(s): 1  College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PROGRAMMABLE LOGIC CONTROLLER I</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>Prerequisite(s):</u> Robotics I  <i>Offered only at: Trimble Tech</i></p>	<p><b>MAH03689AB</b></p> <p>N1303689  Grade level: 10-12  HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>MANUFACTURING ROBOTICS II AB (MANROBOTIC 2AB)</b></p> <p>In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.</p> <p><u>Instructional Material:</u> Amatrol  <u>Prerequisite(s):</u> Robotics I  <i>Offered at: Trimble Tech</i></p>	<p><b>MA37003AB</b></p> <p>13037050  Grade level: 11-12  HS Credit(s): 1  College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS MANUFACTURING ROBOTICS II AB (MANROBOTIC 2AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> Amatrol  <u>Prerequisite(s):</u> Robotics I  <i>Offered at: Trimble Tech</i></p>	<p><b>MAH37003AB</b></p> <p>13037050  Grade level: 11-12  HS Credit(s): 1  College Hour(s): NA  <b>Tier II</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p><b>CP01121AB</b></p> <p>12701121  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p><b>CP001132AB</b></p> <p>12701141  Grade level: 11-12  HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work</p>	<p><b>CP001142AB</b></p> <p>12701122  Grade level: 11-12  HS Credit(s): 2</p>

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hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
**Tier III**

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**CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)**

**CP01402AB**

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This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

12701132  
Grade level: 11-12  
HS Credit(s): 3

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

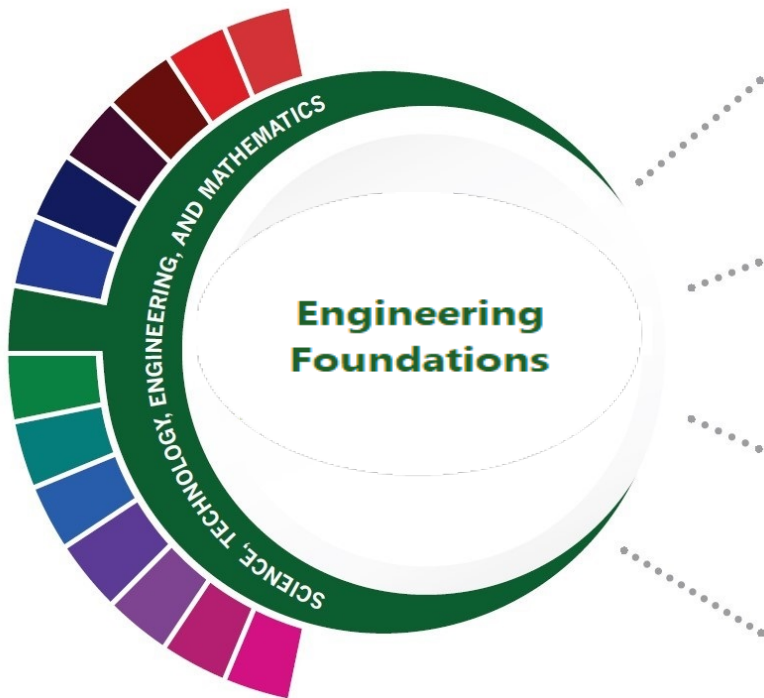
College Hour(s):  
**Tier III**



## **Engineering**

### **Engineering Foundations**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

9th	<b>Honors Engineering Essentials (PLTW)</b> STH03760AB
	<b>Principles of Applied Engineering*:</b> ST36202AB OR STH36202AB
10th	<b>Engineering Design and Presentation I:</b> ST36502AB OR STH36502AB
11th	<b>Engineering Design and Presentation II/d<sup>1, 4*</sup>:</b> ST36602AB OR STH36602AB OR <b>Honors Engineering Design and Development (PLTW)<sup>1, 2, 3**</sup>:</b> STH37492AB
	<b>Engineering Design and Problem Solving:</b> ST37302AB OR STH37302AB OR <b>Scientific Research and Design**:</b> ST37202AB OR STH37202AB OR <b>Unpaid Practicum in STEM/d:</b> STH37402AB OR <b>Paid Practicum in STEM<sup>4</sup>:</b> ST37405AB OR STH37405AB
12th	<b>Career Preparation for Programs of Study:</b> CPPS 1 AB OR <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Robotics I<sup>4</sup>:** ST37002AB OR STH37002AB
- **Robotics II:** ST37003AB OR STH37003AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Certified SolidWorks Associate - Academic<sup>1</sup>; Autodesk Certified User-Inventor<sup>2</sup>; Autodesk Certified User-Fusion 360<sup>3</sup>
- Not Counted Towards Performance Acknowledgment: OSHA 10-Hour General Industry<sup>4</sup>

**Available At:**

- I.M. Terrell Academy HS
- Trimble Technical HS

The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. Students will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.



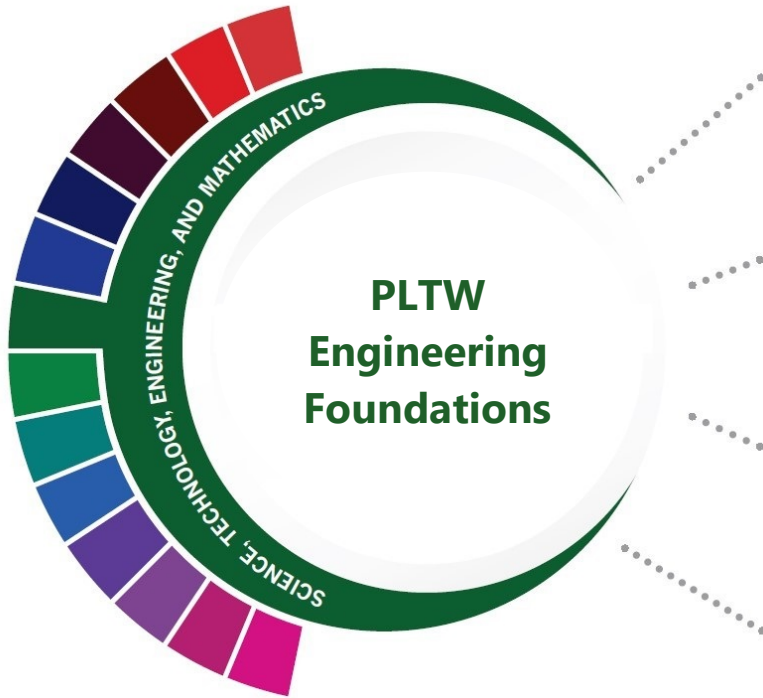
The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

*The \* denoted courses are specific to Trimble Technical High School.*

*The \*\* denoted courses are specific to I.M. Terrell Academy*

Successful completion of the Engineering program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020

**Courses**



<b>9th</b>	<b>Honors Engineering Essentials (PLTW):</b> STH03760AB
<b>10th</b>	<b>Introduction to Engineering Design (PLTW):</b> STH07422AB
<b>11th</b>	<b>Engineering Science (PLTW):</b> STH03742AB <b>OR</b> <b>Computer Integrated Manufacturing (PLTW)<sup>4</sup>:</b> STH37482AB <b>OR</b> <b>Aerospace Engineering (PLTW):</b> STH37452AB <b>OR</b> <b>Civil Engineering and Architecture (PLTW):</b> STH37472AB
<b>12th</b>	<b>PLTW Capstone<sup>1, 2, 3</sup>:</b> STH37492AB <b>OR</b> <b>Paid Practicum in STEM<sup>1, 2, 3, 5</sup>:</b> ST37405AB OR STH37405AB (15 hours) OR ST37409AB OR STH37409AB (10 hours) <b>OR</b> <b>Career Preparation for Programs of Study:</b> CPPS 1 AB <b>OR</b> <b>Extended Career Preparation for Programs of Study:</b> EXCPPS 1 AB

**Enrichment Courses:**

- **Robotics I<sup>5</sup>:** ST37002AB OR STH37002AB
- **Robotics II:** ST37003AB OR STH37003AB

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Autodesk Certified User-Inventor<sup>1</sup>; Certified SolidWorks Associate – Academic<sup>2</sup>; Autodesk Certified User-Fusion 360<sup>3</sup>
- Not Counted Towards Performance Acknowledgment: OSHA 10-Hour General Industry<sup>5</sup>

**Available At:**

- |                          |                    |                  |  |
|--------------------------|--------------------|------------------|--|
| • Arlington Heights HS   | • Dunbar HS        | • Paschal HS     | • Young Men's Leadership Academy HS*   |
| • Benbrook HS            | • Eastern Hills HS | • Polytechnic HS | • Young Women's Leadership Academy HS* |
| • Carter-Riverside HS    | • North Side HS    | • South Hills HS |  |
| • Diamond Hill-Jarvis HS | • OD Wyatt HS      | • Southwest HS   |  |

The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. Students will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.



The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

\*Young Men's Leadership Academy and Young Women's Leadership Academy test at the 11<sup>th</sup> grade level

Successful completion of the Engineering program of study will fulfill requirements of a Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020

## COURSE DESCRIPTIONS FOR STEM CLASSES

<p><b>HONORS ENGINEERING ESSENTIALS AB (PLTW) (ENGESP AB/H)</b></p> <p>In this honors course, students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve the safety and well-being of local citizens. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i></p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, YMLA, YWLA</i></p>	<p><b>STH03760AB</b></p> <p>N1303760 Grade Level: 8-9 HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS INTRODUCTION TO ENGINEERING DESIGN AB (PLTW) (IED AB/H)</b></p> <p>In this honors course, students use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve problems in and out of the classroom. Using sophisticated three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i></p> <p><u>Prerequisite(s):</u> Engineering Essentials (PLTW)</p> <p><i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Western Hills, YMLA, YWLA</i></p>	<p><b>STH07422AB</b></p> <p>N1303742 Grade level: 9- 10 HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS ENGINEERING SCIENCE (PLTW) AB (ENGSCIEN AB/H)</b></p> <p>This honors course helps students understand the field of engineering/engineering technology. Exploring various manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about the social and political consequences of technological change. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i></p> <p><u>Prerequisite(s):</u> Introduction to Engineering Design (PLTW)</p> <p><i>Offered at: Arlington Heights, Benbrook, Dunbar, Eastern Hills, O.D. Wyatt, Paschal, Polytechnic, Southwest, YMLA, YWLA</i></p>	<p><b>STH03742AB</b></p> <p>13037500 Grade level: 10 – 11 HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS COMPUTER INTEGRATED MANUFACTURING AB (PLTW) (CIM AB/H)</b></p> <p>This is a course of study in the PLTW program. Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i></p> <p><u>Prerequisite(s):</u> Introduction to Engineering Design (PLTW)</p> <p><i>Offered at: YMLA and Diamond Hill-Jarvis</i></p>	<p><b>STH37482AB</b></p> <p>N1303748 Grade level: 11 - 12 HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS AEROSPACE ENGINEERING AB (PLTW) (AERO AB/H)</b></p> <p>This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i></p> <p><u>Prerequisite(s):</u> Introduction to Engineering Design (PLTW)</p> <p><i>Offered at: Carter-Riverside, South Hills, Western Hills</i></p>	<p><b>STH37452AB</b></p> <p>N1303745 Grade level: 11-12 HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS CIVIL ENGINEERING AND ARCHITECTURE AB (PLTW) (CEA AB/H)</b></p> <p>This honors course focuses on using long-term projects that involve the development of property sites. As students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of a property. The students may develop the property as a simulation, or they may model experiences that civil engineers and architects face. Students work in teams, exploring hands-on activities and projects to learn the characteristics of civil engineering and architecture. Students use 3-D design software to help them design solutions to solve major course projects. Students learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community of civil engineering and architecture. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i></p> <p><u>Prerequisite(s):</u> Introduction to Engineering Design (PLTW)</p> <p><i>Offered at: North Side, YWLA</i></p>	<p><b>STH37472AB</b></p> <p>N1303747 Grade level: 11-12 HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA <b>Tier II</b></p>

<b>HONORS ENGINEERING DESIGN AND DEVELOPMENT AB (PLTW) (EDD AB/H)</b>	<b>STH37492AB</b>
<p>This honors course is an engineering research course in which the students work in teams to research, design, and construct a solution to an open-ended engineering problem. The product development lifecycle and a design process will be used to guide and help the team reach a solution to the problem. The team will present and defend your solution to a panel of outside reviewers at the end of the school year. Engineering Design and Development™ serves as the capstone course within the Project Lead the Way® course sequence and allows students to apply all the skills and knowledge learned in the previous Project Lead the Way, Inc. courses. Inventor, which is a state of the art 3-D design software package from AutoDesk, will be used for students to design solutions to the problem the teams have chosen. This course will also test their time management and team skills, which are a valuable asset for the future. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>N1303749 Grade level: 11 - 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Project Lead the Way materials furnished by CTE department</i> <u>Prerequisite(s):</u> Engineering Design and Presentation I <i>Offered at: I.M. Terrell</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<b>HONORS UNPAID PRACTICUM IN STEM/d AB (PRACSTEM AB/H)</b>	<b>STH37402AB</b>
<p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In addition, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13037400 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Medical Interventions (PLTW), Medical Microbiology, Engineering Design and Development (PLTW), or Engineering Design and Presentation II/D <i>Offered only at: I.M. Terrell, TABS, and Trimble Tech</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<b>HONORS PAID PRACTICUM IN STEM/EXTENDED AB (EXPRSTEM1 AB/H)</b>	<b>STH37405AB</b>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13037405 Grade level: 12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Engineering Science (PLTW), Computer Integrated Manufacturing (PLTW), Aerospace Engineering (PLTW), Civil Engineering and Architecture (PLTW), Engineering Design and Development (PLTW), or Engineering Design and Presentation II/D <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA</i></p>	<p>HS Credit(s): 3 College Hour(s): NA <b>Tier II</b></p>
<b>HONORS PAID PRACTICUM IN STEM AB (PRACSTEM AB/H)</b>	<b>STH37409AB</b>
<p>This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>ten (10) hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13037400 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Engineering Science (PLTW), Computer Integrated Manufacturing (PLTW), Aerospace Engineering (PLTW), Civil Engineering and Architecture (PLTW), Engineering Design and Development (PLTW), or Engineering Design and Presentation II/D <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>

<b>PRINCIPLES OF APPLIED ENGINEERING AB (PRAPPENG AB)</b>	<b>ST36202AB</b>
Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.	13036200 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> <i>Principles of Applied Engineering, Texas Edition Reid, et al. 2017, Pearson Education</i> <u>Prerequisite(s):</u> None <i>Offered at: Trimble Tech and I.M. Terrell</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS PRINCIPLES OF APPLIED ENGINEERING AB (PRAPPENG AB/H)</b>	<b>STH36202AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13036200 Grade level: 9
<u>Instructional Material:</u> <i>Principles of Applied Engineering, Texas Edition Reid, et al. 2017, Pearson Education</i> <u>Prerequisite(s):</u> None <i>Offered at: Trimble Tech and I.M. Terrell</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>ENGINEERING DESIGN AND PRESENTATION I AB (ENGDSR AB)</b>	<b>ST36502AB</b>
Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.	13036500 Grade level: 10 HS Credit(s): 1
<u>Instructional Material:</u> <i>Exploring Drafting, Walker, et al, 2018, Goodheart-Willcox Co.</i> <u>Prerequisite(s):</u> Principles of Applied Engineering <i>Offered at: Trimble Tech and I.M. Terrell</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ENGINEERING DESIGN AND PRESENTATION I AB (ENGDSR AB/H)</b>	<b>STH36502AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13036500 Grade level: 10
<u>Instructional Material:</u> <i>Exploring Drafting, Walker, et al, 2018, Goodheart-Willcox Co.</i> <u>Prerequisite(s):</u> Principles of Applied Engineering <i>Offered at: Trimble Tech and I.M. Terrell</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>ENGINEERING DESIGN AND PRESENTATION II/D AB (ENGP2 AB)</b>	<b>ST36602AB</b>
This double-period course is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Emphasis will be placed on using skills from ideation through prototyping.	13036600 Grade level: 11 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Engineering Design and Presentation I <i>Offered at: Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS ENGINEERING DESIGN AND PRESENTATION II/D AB (ENGP2 AB/H)</b>	<b>STH36602 AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13036600 Grade level: 11
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Engineering Design and Presentation I <i>Offered at: Trimble Tech</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>ROBOTICS I AB (ROBOT 1AB)</b>	<b>ST37002AB</b>
In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.	13037000 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Industrial Robotics, Goodheart-Willcox Co. <u>Prerequisite(s):</u> None <i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA and YWLA</i>	College Hour(s): NA <b>Tier III</b>



<b>HONORS ROBOTICS I AB (ROBOT 1AB/H)</b>	<b>STH37002AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037000 Grade level: 10-12
<u>Instructional Material:</u> Industrial Robotics, Goodheart-Willcox Co.	HS Credit(s): 1
<u>Prerequisite(s):</u> None	College Hour(s): NA
<i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA and YWLA</i>	<b>Tier II</b>
<b>ENGINEERING DESIGN AND PROBLEM SOLVING AB (ENGDPRS AB)</b>	<b>ST37302AB</b>
The Engineering Design and Problem Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. This course satisfies a high school science graduation requirement. Students shall be awarded one credit for successful completion of this course.	13037300 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Engineering Fundamentals: Introduction 4th Edition, Cengage; <i>Project Lead the Way materials furnished by CTE department (for select campuses and programs)</i>	College Hour(s): NA
<u>Prerequisite(s):</u> Engineering Design and Presentation II, Computer Integrated Manufacturing (PLTW), Aerospace Engineering (PLTW), Engineering Science (PLTW), or Civil Engineering and Architecture (PLTW)	<b>Tier III</b>
<i>Course taught by a certified secondary science teacher or any CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</i>	
<i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA</i>	
<b>ENGINEERING, DESIGN, &amp; DEVELOPMENT/PLTW CAPSTONE</b>	<b>STH37492AB</b>
Students engage in an open-ended research experience in the PLTW Capstone course, a culminating program for those completing PLTW's high school offerings. They collaborate in teams, designing and developing original solutions to well-defined and justified real-world problems.	N1303749 Grade level: 12 HS Credit(s): 1
<u>Instructional Material:</u> Project Lead the Way materials furnished by CTE department	
<u>Prerequisite(s):</u> Engineering Design and Presentation I	
<i>Offered at: I.M. Terrell</i>	
<b>HONORS ENGINEERING DESIGN AND PROBLEM SOLVING AB (ENGDPRS AB/H)</b>	<b>STH37302AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037300 Grade level: 12
<u>Instructional Material:</u> Engineering Fundamentals: Introduction 4th Edition, Cengage; <i>Project Lead the Way materials furnished by CTE department (for select campuses and programs)</i>	HS Credit(s): 1
<u>Prerequisite(s):</u> Engineering Design and Presentation II, Computer Integrated Manufacturing (PLTW), Aerospace Engineering (PLTW), Engineering Science (PLTW), or Civil Engineering and Architecture (PLTW)	College Hour(s): NA
<i>Course taught by locally certified secondary science teacher or any CTE teacher with a baccalaureate degree and 18 semester credit hours in any combination of sciences. 19 TAC Chapter 231.</i>	<b>Tier II</b>
<i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA</i>	
<b>ROBOTICS II AB (ROBOTIC 2AB)</b>	<b>ST37003AB</b>
In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.	13037050 Grade level: 11-12 HS Credit(s): 1
<u>Instructional Material:</u> Industrial Robotics, Goodheart-Willcox Co.	College Hour(s): NA
<u>Prerequisite(s):</u> Robotics I	<b>Tier III</b>
<i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA</i>	
<b>HONORS ROBOTICS II AB (ROBOTIC 2AB/H)</b>	<b>STH37003AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037050 Grade level: 11-12
<u>Instructional Material:</u> Industrial Robotics, Goodheart-Willcox Co.	HS Credit(s): 1
<u>Prerequisite(s):</u> Robotics I	College Hour(s): NA
<i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, I.M. Terrell, North Side, O.D. Wyatt, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, YMLA, YWLA</i>	<b>Tier II</b>
<b>HONORS SCIENTIFIC RESEARCH AND DESIGN AB (SCIRD AB/H)</b>	<b>STH37202AB</b> <b>STH37212AB (2<sup>nd</sup> Time)</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	130372## Grade level: 11 - 12

<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> To receive 4th year science credit students must have completed three (3) units of science (Biology, Chemistry, and Physics) one (1) of which may be taken concurrently 130372###: 1st Time Taken ##=00, 2nd Time Taken ##=10, 3rd Time Taken ##=20 Course taught by locally certified gifted teacher Offered at: TABS</p>	<p>HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<b>PLTW CAPSTONE</b>	<b>STH37492AB</b>
<p>Students engage in an open-ended research experience in the PLTW Capstone course, a culminating program for those completing PLTW's high school offerings. They collaborate in teams, designing and developing original solutions to well-defined and justified real-world problems.</p> <p><u>Instructional Material:</u> Project Lead the Way materials furnished by CTE department <u>Prerequisite(s):</u> Engineering Design and Presentation I Offered at: I.M. Terrell</p>	<p>N1303749 Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b>	<b>CP01121AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701121 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b>	<b>CP001132AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701141 Grade level: 11-12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b>	<b>CP001142AB</b>
<p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p>12701122 Grade level: 11-12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>

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**CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (EXCPP 2 AB)****CP01402AB**

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This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

12701132  
Grade level: 11-12  
HS Credit(s): 3

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Instructional Material: Contact Career and Technical Education Department for related materials

Prerequisite(s): None



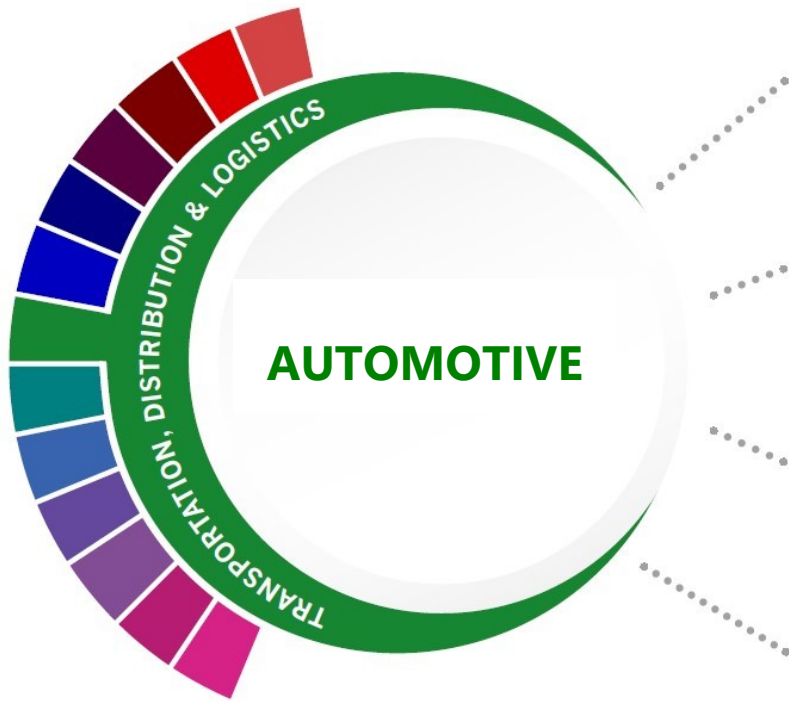
## **Transportation, Distribution, and Logistics**

**Automotive**

**Collision Repair**

**Aviation Maintenance**

To reach CTE Completer status, students complete and pass three or more 19 TAC Chapter 126 (C), 127 (B), or 130 CTE courses for four or more credits within a program of study, including at least one level three or level four course from the same program of study.



**Courses**

**9th Principles of Transportation Systems:**  
TP39201AB OR TPH39201AB

**10th Automotive Basics<sup>2</sup>:**  
TP39300AB OR TPH39300AB

**11th Automotive Technology I/d<sup>2</sup>:**  
TP39602AB OR TPH39602AB  
OR  
**Dual Credit Automotive Technology I/d<sup>2</sup>:**  
TPD39602A, TPD39602B  
*(Only available at OD Wyatt & Polytechnic HS)*

**Automotive Technology II/d<sup>2</sup>:**  
TP39702AB OR TPH39702AB  
OR  
**Dual Credit Automotive Technology II/d<sup>2</sup>:**  
TPD39702A, TPD39702B *(Only available at OD Wyatt & Polytechnic HS)*

**12th Paid Practicum in Transportation Systems<sup>2</sup>:**  
TP40410AB OR TPH40410AB  
**OR**  
**Career Preparation for Programs of Study:**  
CPPS 1 AB  
**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Automotive Service Excellence (ASE) Entry Level (Exams G1(MR), A4(SS), A5(BR), and A6(EE))<sup>1</sup>
- Not Counted towards Performance Acknowledgment: Safety and Pollution Prevention (S/P2)<sup>2</sup>

**Available At:**

- Dunbar HS
- North Side HS
- OD Wyatt HS
- Polytechnic HS
- Trimble Technical HS

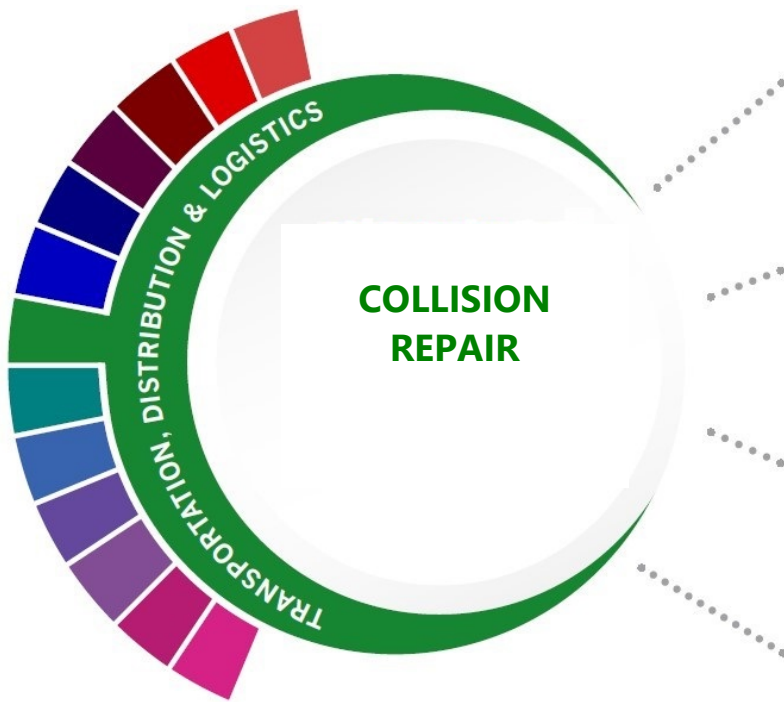
The Automotive program of study teaches students how to repair and refinish automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.



The Transportation, Distribution, and Logistics Career Cluster® focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020

## Courses



**9th Basic Collision Repair and Refinishing<sup>3</sup>:**  
TP39800AB OR TPH39800AB

**10th Collision Repair/d<sup>1,3,4</sup>:**  
TP39802AB OR TPH39802AB

**11th Paint and Refinishing/d<sup>2,3</sup>:**  
TP39902AB OR TPH39902AB

**Unpaid Practicum in Transportation Systems/d<sup>3,5</sup>:**  
TP40402 AB OR TPH40402 AB  
OR  
**Paid Practicum in Transportation Systems<sup>3,5</sup>:**  
TP40410 AB OR TPH40410 AB  
**OR**  
**Career Preparation for Programs of Study:**  
CPPS 1 AB  
**OR**  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

### Enrichment Courses:

- N/A

### Certification Options:

- Industry Certification Opportunities for Performance Acknowledgment: Automotive Service Excellence (ASE) Entry Level (Exams B3(SR), and B4, and B5(ME))<sup>1</sup>; Automotive Service Excellence (ASE) Entry Level (Exams B2(PR))<sup>2</sup>
- Not Counted towards Performance Acknowledgment: Safety and Pollution Prevention (S/P2)<sup>3</sup>; Inter-Industry Conference on Auto Collision Repair (I-CAR) Certification<sup>4</sup>; Automotive Service Excellence (ASE) Entry Level (Exam B6)<sup>5</sup>

### Available At:

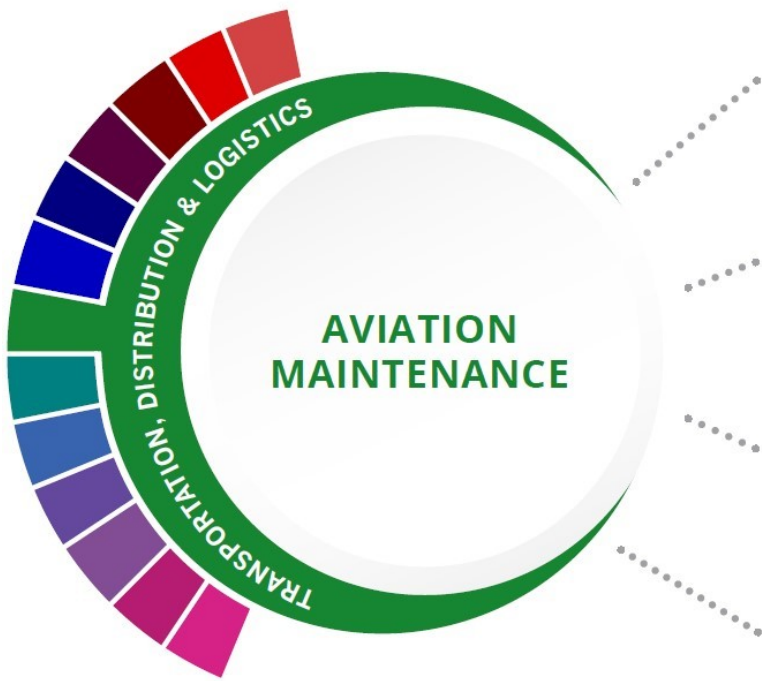
- Trimble Technical HS

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Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry Endorsement. Revised – July 2020



**Courses**

**9th Introduction to Aircraft Technology:**  
TP39401 AB OR TPH39401 AB

**10th Occupational Safety and Environmental Technology I<sup>1</sup>:**  
TP03680 AB OR TPH03680 AB

**11th Aircraft Airframe Technology/d<sup>1</sup>:**  
TP39402 AB OR TPH39402 AB

**Aircraft Powerplant Technology/d<sup>2</sup>:**  
TP39502 AB OR TPH39502 AB  
OR  
**Unpaid Practicum in Transportation Systems/d:**  
TP40402 AB OR TPH40402 AB  
OR  
**12th Paid Practicum in Transportation Systems:**  
TP40410 AB OR TPH40410 AB  
OR  
**Career Preparation for Programs of Study:**  
CPPS 1 AB  
OR  
**Extended Career Preparation for Programs of Study:** EXCPPS 1 AB

**Enrichment Courses:**

- N/A

**Certification Options:**

- Industry Certification Opportunities for Performance Acknowledgment: Industrial Technology Maintenance (ITM) - Basic Mechanical Systems<sup>1</sup>
- Not Counted towards Performance Acknowledgment: FAA General Subject Certificate of Completion<sup>2</sup> (Hours toward FAA General Certificate); OSHA 10-Hour General Industry Certification<sup>1</sup>

**Available At:**

- Dunbar HS

The Aviation Maintenance program of study introduces students to the occupations and education opportunities related to inspecting aircraft, maintenance procedures, air navigational aids, air traffic controls, and communications equipment to ensure conformance with federal safety regulations.



The Transportation, Distribution, and Logistics Career Cluster<sup>®</sup> focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Aviation program of study will fulfill requirements of the Business and Industry Endorsement. Revised – July 2020

## COURSE DESCRIPTIONS FOR TRANSPORTATION, DISTRIBUTION, & LOGISTICS CLASSES

<p><b>PRINCIPLES OF TRANSPORTATION SYSTEMS: AUTOMOTIVE (PRINTAUTO AB)</b></p> <p>In Principles of Transportation Systems: Automotive, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. The emphasis will be on the automotive industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.</p>	<p><b>TP39201AB</b></p> <p>13039250 Grade level: 9 - 10 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>Architecture, Construction, Transportation and Manufacturing</i>, iCEV <u>Prerequisite(s):</u> None <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, OD Wyatt</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS PRINCIPLES OF TRANSPORTATION SYSTEMS: AUTOMOTIVE (PRINTAUTO AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>TPH39201AB</b></p> <p>13039250 Grade level: 9 - 10 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><u>Instructional Material:</u> <i>Architecture, Construction, Transportation and Manufacturing</i>, iCEV <u>Prerequisite(s):</u> None <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, OD Wyatt</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>INTRODUCTION TO AIRCRAFT TECHNOLOGY AB (INAI RTEC AB)</b></p> <p>Introduction to Aircraft Technology is designed to teach the theory of operation of aircraft airframes, power plants, avionics systems and associated maintenance and repair practices. Maintenance and repair practices include knowledge of the function, diagnosis, and service of general curriculum subjects, airframe structures, airframe systems and components, power plant theory and maintenance, and power plant systems and the electrical, electronic, hydraulic, pneumatic, airframe, mechanical, and power plant components of aircrafts. Industry recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.</p>	<p><b>TP39401AB</b></p> <p>13039350 Grade level: 9 - 10 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite:</u> None <i>Offered at: Dunbar</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS INTRODUCTION TO AIRCRAFT TECHNOLOGY AB (INAI RTEC AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>TPH39401AB</b></p> <p>13039350 Grade level: 9 - 10 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite:</u> None <i>Offered at: Dunbar</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>OCCUPATIONAL SAFETY AND ENVIRONMENTAL TECHNOLOGY AB (OSET1 AB)</b></p> <p>This course provides high school students with the opportunity to learn and apply specific in-depth professional and technical skills related to high-wage, high-demand occupations in Aviation Maintenance career cluster. This course prepares students in the high school aviation maintenance sequence for college and career success and provides rigorous and focused instruction. During Occupational Safety &amp; Environmental Technology (OSET) I, students will investigate the field of Occupational Safety and Health Administration and Environmental Technology, which is charged with the tasks of ensuring that business and industry provide a safe workplace, free from hazards and bringing about a reduction in the occurrence of job-related injuries and fatalities.</p>	<p><b>TP03680AB</b></p> <p>N1303680 Grade level: 10 – 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite:</u> Introduction to Aircraft Technology <i>Offered at: Dunbar</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>HONORS OCCUPATIONAL SAFETY AND ENVIRONMENTAL TECHNOLOGY AB (OSET1 AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>TPH03680AB</b></p> <p>N1303680 Grade level: 10 - 12 HS Credit(s): 1 College Hour(s): NA <b>Tier II</b></p>
<p><u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite:</u> Introduction to Aircraft Technology <i>Offered at: Dunbar</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>AIRCRAFT AIRFRAME TECHNOLOGY/D AB (AIRTEC AB)</b></p> <p>This course is a double-period technical laboratory course designed to provide training for entry-level employment in the aerospace aviation industry. It teaches the theory of operation of aircraft airframes, power plants, and avionics systems and associated maintenance and repair practices. Aircraft services include knowledge of the function, diagnosis, and service of the electrical, electronic, hydraulic, pneumatic, airframe, mechanical, and power plant components of aircraft. It is a ground school program and instruction emphasizing aircraft design, power plants, flight instruments, navigation, and electronic communication. Also, included is the calculation of flight time, fuel consumption, wind vector, drift, heading, and speed determinants.</p>	<p><b>TP39402AB</b></p> <p>13039400 Grade level: 10 - 11 HS Credit(s): 2</p>



<u>Instructional Material</u> : Contact Career and Technical Education for related materials <u>Prerequisite(s)</u> : Introduction to Aircraft Technology <i>Offered at: Dunbar</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS AIRCRAFT AIRFRAME TECHNOLOGY/D AB (AIRTECH AB/H)</b>	<b>TPH39402AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13039400 Grade level: 10 – 11
<u>Instructional Material</u> : Contact Career and Technical Education for related materials <u>Prerequisite(s)</u> : Introduction to Aircraft Technology <i>Offered at: Dunbar</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>AIRCRAFT POWERPLANT TECHNOLOGY/D AB (AIRPTEC AB)</b>	<b>TP39502AB</b>
Aircraft Powerplant Technology is designed to teach the theory of operation of aircraft powerplants and associated maintenance and repair practices. Powerplant maintenance and repair practices include knowledge of the theory, function, diagnosis, and service of powerplant, systems, and components of aircraft. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.	13039500 Grade level: 11 – 12 HS Credit(s): 2
<u>Instructional Material</u> : Contact Career and Technical Education for related materials <u>Prerequisite(s)</u> : Aircraft Technology/D <i>Offered at: Dunbar</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS AIRCRAFT POWERPLANT TECHNOLOGY/D AB (AIRPTEC AB/H)</b>	<b>TPH39502AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13039500 Grade level: 11 – 12
<u>Instructional Material</u> : Contact Career and Technical Education for related materials <u>Prerequisite(s)</u> : Aircraft Technology/D <i>Offered at: Dunbar</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>AUTOMOTIVE BASICS AB (AUTOBASC AB)</b>	<b>TP39300AB</b>
Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.	13039550 Grade level: 10 - 11 HS Credit(s): 1
<u>Instructional Material</u> : <i>CDX Fundamentals of Automotive Technology</i> , Jones and Bartlett Learning <u>Prerequisite(s)</u> : Principles of Transportation Systems: Automotive <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and OD Wyatt</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS AUTOMOTIVE BASICS AB (AUTOBASC AB/H)</b>	<b>TPH39300AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13039550 Grade level: 10 – 11
<u>Instructional Material</u> : <i>CDX Fundamentals of Automotive Technology</i> , Jones and Bartlett Learning <u>Prerequisite(s)</u> : Principles of Transportation Systems: Automotive <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and OD Wyatt</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>AUTOMOTIVE TECHNOLOGY: MAINTENANCE AND LIGHT REPAIR I/D AB (AUTOTEC 1AB)</b>	<b>TP39602AB</b>
This double-period course continues to prepare students for entry-level employment in the automotive and diesel technology fields. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. Students use National Automotive Technician Education Foundation (NATEF) standards to develop skills in the service and repair of vehicle components: electrical/electronic systems, suspensions and steering. Entrepreneurship, safety, and career opportunities are included. This is an Automotive Service Excellence (ASE) certified program.	13039600 Grade level: 11 - 12 HS Credit(s): 2
<u>Instructional Material</u> : <i>CDX Fundamentals of Automotive Technology</i> , Jones and Bartlett Learning <u>Prerequisite(s)</u> : Automotive Basics <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and OD Wyatt</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS AUTOMOTIVE TECHNOLOGY: MAINTENANCE AND LIGHT REPAIR I/D AB (AUTOTEC AB/H)</b>	<b>TPH39602AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13039600 Grade level: 11 – 12
<u>Instructional Material</u> : <i>CDX Fundamentals of Automotive Technology</i> , Jones and Bartlett Learning <u>Prerequisite(s)</u> : Automotive Basics <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and OD Wyatt</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT AUTOMOTIVE TECHNOLOGY: MAINTENANCE AND LIGHT REPAIR I/D A (AUTOTEC1A DC)</b>	<b>TPD39602A</b>
<b>TCC Course: (AUMT 1405) Introduction to Automotive Technology</b> <i>*Course offerings may vary each year due to availability</i>	
In this dual credit class, students will be introduced to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities and basic automotive maintenance. May be taught manufacturer specific. Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis and repair of power, manual, anti-lock brake systems and parking brakes. May be taught with manufacturer-specific instructions.	13039600 Grade level: 11 - 12 HS Credit(s): 1

<p><u>Instructional Material:</u> <i>CDX Fundamentals of Automotive Technology</i>, Jones and Bartlett Learning  <u>TCC Course:</u> Introduction to Automotive Technology (AUMT 1405)  <u>FWISD Prerequisite(s):</u> Automotive Basics  <u>TCC Prerequisite(s):</u> TSI  <i>Course taught by an approved embedded instructor.</i>  <i>Offered at: Polytechnic and OD Wyatt</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT AUTOMOTIVE TECHNOLOGY: MAINTENANCE AND LIGHT REPAIR I/D B (AUTOTEC1B DC)</b>  <b>TCC Course: (AUMT 1407) Automotive Electrical Systems</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>TPD39602B</b></p>
<p>In this dual credit class, students will learn about electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service manuals. May be taught manufacturer specific.</p>	<p>13039600  Grade level: 11 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>CDX Fundamentals of Automotive Technology</i>, Jones and Bartlett Learning  <u>TCC Course:</u> Automotive Engine Performance Analysis I (AUMT 1407)  <u>FWISD Prerequisite(s):</u> Dual Credit Automotive Technology 1/D A  <u>TCC Prerequisite(s):</u> TSI, AUMT 1405  <i>Course taught by an approved embedded instructor.</i>  <i>Offered at: Polytechnic and OD Wyatt</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>AUTOMOTIVE TECHNOLOGY: AUTOMOTIVE SERVICE II/D AB (AUTOTEC 2AB)</b></p>	<p><b>TP39702AB</b></p>
<p>Students in this double-period laboratory course continue training for entry-level employment in an automotive technology career field. The course includes use of National Automotive Technician Education Foundation (NATEF) standards in the service and repair of the vehicle component of Automotive Engine Performance. Entrepreneurship, safety, and leadership training are included. This is an Automotive Service Excellence (ASE) certified program.</p>	<p>13039700  Grade level: 12  HS Credit(s): 2</p>
<p><u>Instructional Material:</u> <i>CDX Fundamentals of Automotive Technology</i>, Jones and Bartlett Learning  <u>Prerequisite(s):</u> Automotive Technology I/D  <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Technical, OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS AUTOMOTIVE TECHNOLOGY: AUTOMOTIVE SERVICE II/D AB (AUTOTEC 2AB/H)</b></p>	<p><b>TPH39702AB</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p>13039700  Grade level: 12  HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><u>Instructional Material:</u> <i>CDX Fundamentals of Automotive Technology</i>, Jones and Bartlett Learning  <u>Prerequisite(s):</u> Automotive Technology I/D  <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Technical, OD Wyatt</i></p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>DUAL CREDIT AUTOMOTIVE TECHNOLOGY II: AUTOMOTIVE SERVICE II/D A (AUTOTEC 2A DC)</b>  <b>TCC Course: (AUMT 1410) Automotive Brake Systems</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>TPD39702A</b></p>
<p>In this dual credit class, students will learn about the operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis and repair of power, manual, anti-lock brake systems and parking brakes. May be taught with manufacturer-specific instructions.</p>	<p>13039700  Grade level: 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>CDX Fundamentals of Automotive Technology</i>, Jones and Bartlett Learning  <u>TCC Course:</u> Automotive Engine Performance Analysis I (AUMT 1410)  <u>FWISD Prerequisite(s):</u> Dual Credit Automotive Technology I/D B  <u>TCC Prerequisite(s):</u> TSI, AUMT 1407  <i>Course taught by an approved embedded instructor.</i>  <i>Offered at: Polytechnic and OD Wyatt</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT AUTOMOTIVE TECHNOLOGY II: AUTOMOTIVE SERVICE II/D B (AUTOTEC 2B DC)</b>  <b>TCC Course: (AUMT 2417) Automotive Engine Performance Analysis I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>TPD39702B</b></p>
<p>In this dual credit class, students will learn about diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific.</p>	<p>13039700  Grade level: 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> <i>CDX Fundamentals of Automotive Technology</i>, Jones and Bartlett Learning  <u>TCC Course:</u> Automotive Engine Performance Analysis I (AUMT 2417)  <u>FWISD Prerequisite(s):</u> Dual Credit Automotive Technology II/D A  <u>TCC Prerequisite(s):</u> TSI, AUMT 1410  <i>Course taught by an approved embedded instructor.</i>  <i>Offered at: Polytechnic and OD Wyatt</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>PAID PRACTICUM IN TRANSPORTATION SYSTEMS AB/EXTENDED (EXPRTRS1 AB)</b></p>	<p><b>TP40410AB</b></p>
<p>The practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. The Practicum is designed to give students supervised practical application of knowledge and skills. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per</p>	<p>13040455  Grade level: 12  HS Credit(s): 3</p>

week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.	
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Automotive Technology II, Collision Repair Paint and Refinishing, or Aircraft Powerplant Technology <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and O.D. Wyatt</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS PAID PRACTICUM IN TRANSPORTATION SYSTEMS AB/EXTENDED (EXPRTRS1 AB/H)</b>	<b>TPH40410AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13040455 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Automotive Technology II, Collision Repair Paint and Refinishing, or Aircraft Powerplant Technology <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and O.D. Wyatt</i>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>UNPAID PRACTICUM IN TRANSPORTATION SYSTEMS AB/D (PRACTDL AB)</b>	<b>TP40402AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. The Practicum is designed to give students supervised practical application of knowledge and skills. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the paid practicum learning experiences. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school.	13040450 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Automotive Technology II, Collision Repair Paint and Refinishing, or Aircraft Powerplant Technology <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and O.D. Wyatt</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID PAID PRACTICUM IN TRANSPORTATION SYSTEMS AB/D (PRACTDL AB/H)</b>	<b>TPH40402AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13040450 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Automotive Technology II, Collision Repair Paint and Refinishing, or Aircraft Powerplant Technology <i>Offered at: Dunbar, North Side, Polytechnic, Trimble Tech, and O.D. Wyatt</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>BASIC COLLISION REPAIR AND REFINISHING AB (BASCOLRR AB)</b>	<b>TP39800AB</b>
Basic Collision Repair and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.	13039750 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> <i>Auto Collision Repair and Refinishing, 2nd Edition 2017, Goodheart-Willcox Co.</i> <u>Prerequisite(s):</u> Principles of Transportation Systems: Collision <i>Offered only at: Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS BASIC COLLISION REPAIR AND REFINISHING AB (BASCOLRR AB/H)</b>	<b>TPH39800AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13039750 Grade level: 9
<u>Instructional Material:</u> <i>Auto Collision Repair and Refinishing, 2nd Edition 2017, Goodheart-Willcox Co.</i> <u>Prerequisite(s):</u> Principles of Transportation Systems: Collision <i>Offered only at: Trimble Tech</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>COLLISION REPAIR/D AB (COLLISR AB)</b>	<b>TP39802AB</b>
This double-period pre-employment laboratory course provides job-specific preparation for entry-level employment in automotive collision repair. It includes use of National Automotive Technician Education Foundation (NATEF) industry standards and utilizes I-car materials in STRUCTURAL ANALYSIS and DAMAGE REPAIR. Instruction emphasizes advanced training in frame and body repair; metal, fiberglass, and synthetic materials repair; welding skills; and preparation and application of primers and paint. Entrepreneurship, environmental issues, safety, leadership training, and career-opportunity awareness are emphasized.	13039800 Grade level: 10 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Basic Collision Repair and Refinishing <i>Offered only at: Trimble Tech</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS COLLISION REPAIR/D AB (COLLISR AB/H)</b>	<b>TPH39802AB</b>
In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13039800 Grade level: 10

<p><u>Instructional Material</u>: Contact Career and Technical Education for related materials  <u>Prerequisite(s)</u>: Basic Collision Repair and Refinishing  <u>Offered only at</u>: Trimble Tech</p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>PAINT AND REFINISHING/D AB (PAINTR AB)</b></p> <p>This double-period pre-employment laboratory course continues preparation for entry-level employment in automotive collision repair. It includes use of National Automotive Technician Education Foundation (NATEF) industry standards and utilizes I-car materials in STRUCTURAL ANALYSIS and DAMAGE REPAIR. Instruction emphasizes advanced preparation in metal fiberglass and synthetic materials preparation and application of primers and paint. An INDUSTRY INTERNSHIP is an integral element of the program. Entrepreneurship, environmental issues, safety, leadership training and career opportunity awareness are emphasized.</p>	<p><b>TP39902AB</b>  13039900  Grade level: 11  HS Credit(s): 2</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education for related materials  <u>Prerequisite(s)</u>: Collision Repair/D  <u>Offered only at</u>: Trimble Tech</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>HONORS PAINT AND REFINISHING/D AB (PAINTR AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p>	<p><b>TPH39902AB</b>  13039900  Grade level: 11</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education for related materials  <u>Prerequisite(s)</u>: Collision Repair/D  <u>Offered only at</u>: Trimble Tech</p>	<p>HS Credit(s): 2  College Hour(s): NA  <b>Tier II</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY AB (CPPS 1 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p><b>CP01121AB</b>  12701121  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education Department for related materials  <u>Prerequisite(s)</u>: None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION I FOR PROGRAMS OF STUDY/EXTENDED I AB (EXCPP 1 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p><b>CP001132AB</b>  12701141  Grade level: 11-12  HS Credit(s): 3</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education Department for related materials  <u>Prerequisite(s)</u>: None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION II FOR PROGRAMS OF STUDY AB (CPPS 2 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for ten hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.</p>	<p><b>CP001142AB</b>  12701122  Grade level: 11-12  HS Credit(s): 2</p>
<p><u>Instructional Material</u>: Contact Career and Technical Education Department for related materials  <u>Prerequisite(s)</u>: None</p>	<p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION II FOR PROGRAMS OF STUDY/EXTENDED II AB (CPPS 2 AB)</b></p> <p>This course is a paid capstone experience for CTE students who have found employment for the school year within their CTE Program of Study. This course is for CTE students only. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for fifteen hours per week (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of</p>	<p><b>CP01402AB</b>  12701132  Grade level: 11-12  HS Credit(s): 3</p>

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the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. This is a full year course.

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Instructional Material: Contact Career and Technical Education Department for related materials  
Prerequisite(s): None

College Hour(s): NA  
**Tier III**

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# P-TECH

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## Pathways in Technology (P-Tech) Early College High Schools

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# Pathways in Technology Early College High School (P-TECH)

Pathways in Technology Early College High Schools (P-TECH) are innovative open-enrollment high schools that allow students least likely to attend college an opportunity to receive both a high school diploma, an associate degree or at least 60 credit hours and industry certifications and credentials. The hallmark of the P-TECH model is its career focus and the provision of work-based education. P-TECH programs:

- Enroll historically underserved students, targeting at-risk and economically disadvantaged
- Provide students grade 9 through 12 the opportunity to complete a course of study that combines high school and post-secondary courses
- Enable students to earn a high school diploma, along with an associate degree, Level 1 or Level 2 certificate, or industry-based certification within six years
- Offer age-appropriate work-based learning opportunity in every grade level
- Allow students to gain work experience through an internship, apprenticeship, or other job training program
- Align to regional workforce needs, guiding students into high-demand, high-wage careers
- Partner with Texas Institutions of Higher Education (IHEs) and regional businesses and industries, giving students access to post-secondary education and workforce training opportunities

Location	P-TECH Academy	Focus	Implemented	Associate's Degree	College Level Certificate(s)	Industry Certification(s)
Paul Laurence Dunbar High School	Aviation Manufacturing	Advanced Composites	2020-2021	Associates of Applied Science (AAS), Robotics and Automation: Composites	Advanced Composite, Level 1	Industrial Technology Maintenance (ITM)
		CNC Machinist	2020-2021		CNC Machinist, Level 1	Industrial Technology Maintenance (ITM)
		Mechatronics Technician	2020-2021	Associates of Applied Science (AAS), Robotics and Automation	Mechatronics Technician, Level 1	Industrial Technology Maintenance (ITM)
Eastern Hills High School	Cyber-security	Cybersecurity	2020-2021	Associates of Applied Science (AAS), Cybersecurity	Cybersecurity Specialist, Level 1 Ethical Hacking, Level 2	Cisco Certified Entry Networking Technician (CCENT); CompTIA IT Fundamentals+; CompTIA Network+; Microsoft Technology Associate Introduction to Programming Using Python; and/or Microsoft Technology Associate Introduction to Programming Using Java
		Programming	2020-2021	Associates of Applied Science (AAS), Programming	Programming 1, Level 1 Programming II, Level 2	Cisco Certified Entry Networking Technician (CCENT); CompTIA IT Fundamentals+; CompTIA Network+; Microsoft Technology Associate Introduction to Programming Using Python; and/or Microsoft Technology Associate Introduction to Programming Using Java
North Side High School	Medical Professions	Medical Professions	2020-2021	Associates of Arts (AA)	Health Science Pre-Professional	Pharmacy Technician (PhT); Dementia Specialist Certificate; Emergency Medical Technician (EMT); Patient Care Technician (PCT); Certified Nursing Assistant (CNA)
Poly-technic High School	Education	Education	2020-2021	Associates of Arts (AA), Teaching	Educational Aide I	Educational Aide I
TCC South Collegiate High School	Energy	Electrical Lineman	2018-2019	Associates of Applied Science (AAS), Electronics Line Technician	Ground Technician, Level 1 Renewable Line Technician, Level 2	Microsoft Office Expert-Word, PowerPoint, Excel, or Office 365
		Advanced Energy Technician	2018-2019	Associates of Applied Science (AAS), Electronics Technology: Advanced Energy Technician	Renewable Energy Technology, Level 1	Microsoft Office Expert-Word, PowerPoint, Excel, or Office 365
		Energy Business	2018-2019	Associates of Arts (AA)	Business, Level 1 Business, Level 2	Microsoft Office Expert-Word, PowerPoint, Excel, or Office 365
		Water/Waste Water Operator	2022-2023	Associates of Arts (AA)	Water Operator-D License Wastewater Operator-D License	Microsoft Office Expert-Word, PowerPoint, Excel, or Office 365

*\*Programs, pathways and courses are subject to change at any time and may vary due to availability.*

Location	P-TECH Academy	Focus	Implemented	Associate's Degree	College Level Certificate(s)	Industry Certification(s)
Carter-Riverside High School	IT/ Networking/ Computer Maintenance	Cloud Technology	2021-2022	Associate of Applied Science (AAS), Convergence Technologies: Cloud Technology	Advanced Convergence Technologies, Level 1 OR Convergence Cloud Technology, Level 1	Comp TIA Certifications
Diamond Hill Jarvis High School	Architecture/ Construction Logistics	Architecture	2021-2022	Associate of Applied Science (AAS), Architectural Technology	Architectural CAD Operator, Level 1 OR Architectural Paraprofessional, Level 1 OR Architectural Technology Occupational Skills Award	Autodesk Certified User in AutoCAD
		Construction Management	2021-2022	Associate of Applied Science (AAS), Construction Management Technology	Construction Inspection Technician, Level 1 OR Construction Management Technology, Level 1	NCCER Core Curriculum AND/OR NCCER Construction Technology
		Logistics & Supply Chain Management	2021-2022	Associate of Applied Science (AAS), Logistics and Supply Chain Management	Transportation Management, Level 1 OR Warehouse Management, Level 1	MSSC Certified Logistics Technician
South Hills High School	Software Development, IT and User Experience	Web Applications	2021-2022	Associate of Applied Science (AAS), Information Technology: Web Applications Programming	Web Applications Programming I, Level 1 OR Web Applications Programming II, Level 2	WD Certified Web Design Certification
Success High School	Business	Business	2022-2023	Associate of Arts (AA)	Business, Level 1 Business, Level 2	Microsoft Office Expert-Word, PowerPoint, Excel, or Office 365
Young Men's Leadership Academy	Business	Business	2021-2022	Associate of Arts (AA), Business	Mechatronics Technician, Level 1	Certified SolidWorks Associate or Autodesk Inventor
	Robotics and Animation	Robotics and Animation		Associate of Applied Science (AAS), Robotics and Automation	Business Certification, Level 1 Business Certification, Level 2	Entrepreneurship and Small Business (ESB) and/or Intuit QuickBooks Certified User
I.M. Terrell Academy	Robotics and Automation 2	Robotics and Automation 2	2021-2022	Associate of Applied Science (AAS), Robotics and Automation	Mechatronics Technician, Level 1	Certified SolidWorks Associate or Autodesk Inventor



# Aviation Manufacturing P-TECH Academy – Multidisciplinary Endorsement

## FOR THE GRADUATING CLASS OF 2024 and beyond

The Aviation Manufacturing P-TECH Academy offers three (3) Career Focuses.

<b>Paul Laurence Dunbar High School</b>								
<b>Aviation Manufacturing P-TECH Academy</b>								
<b>Advanced Composites Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	English *III or *IV	English *III or *IV	English IV* or *English Elective	English IV* or *English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry Algebra II	Geometry Algebra II	*Statistics	**Pre-Calculus	*Pre-Calculus	* Calculus I
	AP Human Geography	AP Human Geography	AP World History	AP World History	AP US History	AP US History	Government	Economics
	Biology	Biology	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	PS Math	PS Math						
	Spanish I *	Spanish II*						
	Art Appreciation*	Speech *						
	Honors Principles of Manufacturing AB (MAH32201 AB)	Honors Principles of Manufacturing AB (MAH32201AB)			Dual Credit Intro to Aircraft Technology AB (TPD39401AB)		Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB OR MAH33012AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01300AB)	Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB OR MAH33012AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01300AB)
<b>College</b>	SPN 1341-3	SPN 1342			<b>AERM 1315</b>	PLTC 1303	AERM 1303	AERM 2359
	FAR 1311-3	SPC 1301			AERM 1254	PLTC 1291		
<b>Hrs.</b>					Up to 5	Up to 5	Up to 3	Up to 3
<b>Degree:</b> AAS; Robotics and Automation: Composites - 60+ hours								
<b>College Level Certification(s):</b> Advanced Composite Technology, Level 1 Certification -16 hours								
<b>Industry Certification(s):</b> Industrial Technology Maintenance (ITM)								
*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.								

**Paul Laurence Dunbar High School**  
**Aviation Manufacturing P-TECH Academy**  
**CNC Machinist Crosswalk**

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	English *III or *IV	English *III or *IV	English *IV or *English Elective	English *IV or *English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry Algebra II	Geometry Algebra II	Pre-Calculus	Pre-Calculus	4 <sup>th</sup> year Math	4 <sup>th</sup> year Math
	AP Human Geography	AP Human Geography	AP World History	AP World History	AP US History	AP US History	Government	Economics
	Biology	Biology	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	PS Math	PS Math						
	Spanish I	Spanish II						
	Art Appreciation	Speech						
	Honors Principles of Manufacturing AB (MAH32201A B)	Honors Principles of Manufacturing AB (MAH32201AB)	Dual Credit Intro to Computer Aided Design and Drafting A (STD03769A) AND Dual Credit Intro to Computer Aided Design and Drafting B (STD03769B)	Dual Credit Intermediate Computer Aided Design and Drafting AB (STD03770AB)	Dual Credit Manufacturing Engineering Technology I A (MAD32900A)	Dual Credit Manufacturing Engineering Technology I B (MAD32900B)	Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB) OR MAH33012AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01300AB)	Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB) OR MAH33012AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01300AB)
<b>College</b>	SPN 1341-3	SPN 1342-3	<b>DFTG 1305</b>					
	FAR 1311-3	SPC 1301-3	<b>DFTG 1409</b>	<b>DFTG 2440</b>	<b>MCHN 1338</b>	<b>MCHN 2303</b>	MCHN 2431	MCHN 2434
<b>Hrs.</b>	Up to 6	Up to 6	Up to 7	Up to 4	Up to 3	Up to 3	Up to 4	Up to 4
	<b>Degree:</b> AAS Robotics and Automation Associates - 60+ hours <b>College Level Certification(s):</b> CNC Machinist Technology, Level 1 Certification-25 hours <b>Industry Certification(s):</b> Industrial Technology Maintenance (ITM)							

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.  
 Students who complete Principles of Manufacturing, Manufacturing Engineering Technology I, and Unpaid Practicum in Manufacturing will have met requirements for the Advanced Manufacturing and Machinery Mechanics Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.

**Paul Laurence Dunbar High School**  
**Associates of Applied Science Electronics Technology Robotics and Automation**  
**Robotics Technician with Mechatronics Technician level 1**  
**Multidisciplinary Endorsement**

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School *MATH 1314</b>	English I or II	English I or II	English II or *III	English II or *III	English *III or *IV	English *III or *IV	English *IV or *English Elective	English *IV or *English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	*College Algebra	**Pre-Calculus	4 <sup>th</sup> Year Math	4 <sup>th</sup> Year Math
	AP Human Geography	AP Human Geography	AP World History	AP World History	US History	US History	Government	Economics
	Biology	Biology	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	PS Math	PS Math	PE	PE				
	Spanish I *	Spanish II *	Health					
	Art Appreciation *	Speech *						
	Honors Principles of Manufacturing AB (MAH32201A B)	Honors Principles of Manufacturing AB (MAH32201AB)	Dual Credit AC/DC Electronics AB (STD36802AB) AND Dual Credit Solid State Electronics A (STD36902A)	Dual Credit Robotics I AB (STD37002AB) AND Dual Credit Solid State Electronics B (STD36902B)	Dual Credit Digital Electronics AB (STD37443AB)	Dual Credit Robotics II AB (STD37003AB)	Dual Credit Basic Fluid Power AB (MAD03683AB) AND Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB) OR Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB OR MAH33012AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01300AB)	Honors Paid or Unpaid Practicum in Manufacturing AB (MAH33002AB) OR MAH33012AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01300AB)
<b>College</b>	SPN 1341-3	SPN 1342-3	<b>*CETT 1409</b>	<b>*RBTC 1351</b>	*ENGL 1301	*ENGL 1302	*ENGL 2322	*ENGL 2323
	FAR 1311-3	SPC 1301-3	<b>*RBTC 1401</b>	*MATH 2412	<b>*CETT 1449</b>	*HIST 1302	*GOVT 23052	*ECON 2301
			*KINE 1102	<b>*CETT 1441</b>	*HIST 1301	*CETT 1445	<b>*HYDR 1345</b>	*ELMT 2337
				*KINE 1164	MATH 1314	MATH 2412	*RBTC 1447	*ELPT 2455
							*CETT 2345	<b>*RBTC 2445</b>
<b>Hrs.</b>	Up to 6	Up to 6	Up to 12	Up to 12	Up to 14	Up to 14	Up to 13	Up to 13
	<b>Degree:</b> AAS Robotics and Automation Associates - 60+ hours <b>College Level Certification(s):</b> Mechatronics Technician, Level 1 Certification - 30 hours <b>Industry Certification(s):</b> Industrial Technology Maintenance (ITM)							

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.

**Paul Laurence Dunbar HS PTECH**  
**Associates of Applied Science Robotics and Automation/HS Diploma**  
**[Mechatronics Technician level 1] -Multidisciplinary Endorsement**

Sem.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	English *III or *IV	English *III or *IV	English *IV or *English Elective	English *IV or *English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	*College Algebra	**Pre-Calculus	4 <sup>th</sup> Year Math	4 <sup>th</sup> Year Math
	AP Human Geography	AP Human Geography	AP World History	AP World History	US History	US History	Government	Economics
	Biology	Biology	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	Physics or Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	PS Math	PS Math	PE	PE				
	Spanish I *	Spanish II *	Health					
	Art Appreciation *	Speech *						
	Principles of Manufacturing	Principles of Manufacturing					Practicum/PROBS CareerPrep	Practicum/PROBS CareerPrep
<b>College</b>	SPN 1341-3	SPN 1342-3	*CETT 1409-4	*RBTC 1351-3	*ENGL 1301-3	*ENGL 1302-3	*ENGL 2322-3	*ENGL 2323-3
	FAR 1311-3	SPC 1301-3	*MATH 1314-3	*MATH 2412-4	*CETT 2435-4	*RBTC 2445-4	*GOVT 23052-3	*ECON 2301-3
			*RBTC 1401-4	*CETT 1441-3	*HIST 1301 -3	*HIST 1302-3	* RBTC 1447-4	*ELMT 2337-3
			*KINE 1102-1	*KINE 1164-1	*CETT 1449- 4	*CETT 1445-4	*HYDR 1345-3	*ELPT 2455-4
	Up to 6 hours	Up to 6 hours	Up to 12 hours	Up to 11 hours	Up to 14 hours	Up to 14 hours	Up to 13 hours	Up to 13 hours
		ASS Robotics and Automation Associates Degree: 60+ hours Certifications: Mechatronics Technician Level 1 Certification: 30 hours				3 hours of dual credit Mathematics 3 hours of dual credit Creative Arts/Language, Philosophy & Culture		

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.

**Industry Certification(s):** Industrial Technology Maintenance (ITM)

## COURSE DESCRIPTIONS FOR THE MANUFACTURING P-TECH

<p><b>HONORS PRINCIPLES OF MANUFACTURING AB (PRINMAN AB/H)</b></p> <p>In Principles of Manufacturing, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers. In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p> <p><u>Instructional Material:</u> <i>Agriculture, Construction &amp; Manufacturing, iCEV</i>  <u>Prerequisite(s):</u> None  <i>Offered only at: Dunbar (for PTECH)</i></p>	<p><b>MAH32201AB</b></p> <p>13032200            Grade level: 9            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>HONORS PROJECT-BASED RESEARCH AB (PROBS1 AB/H) (Available Fall 2023)</b>  <i>*Previously Problems and Solutions</i></p> <p>Students will research a real-world problem and possible solutions throughout this course. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Specific to program focus/pathway and is the previous course in the sequence.  <i>Offered at: All high school campuses</i></p>	<p><b>CPH01500AB</b></p> <p>12701101            Grade level: 11-12            HS Credit(s): 1</p> <p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>CAREER PREPARATION I AB (CAREERP1 AB)</b></p> <p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>ten hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None</p>	<p><b>CP01300AB</b></p> <p>127011121            Grade level: 11 - 12            HS Credit(s): 2</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION II AB (CAREERP2 AB)</b></p> <p>The Career Preparation II course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>ten hours per week</u> (or average of 20 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I course.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Career Preparation I AB</p>	<p><b>CP01400AB</b></p> <p>127011122            Grade level: 12            HS Credit(s): 2</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>CAREER PREPARATION I/EXTENDED I AB (EXCAREE1 AB)</b></p> <p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I/Extended provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full</p>	<p><b>CP01302AB</b></p> <p>12701305            Grade level: 11-12            HS Credit(s): 3</p>

<p>year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>fifteen hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>CAREER PREPARATION II/EXTENDED (EXCAREE2 AB)</b></p>	<p><b>CP01402AB</b></p>
<p>The Career Preparation I/Extended course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>fifteen hours per week</u> (or average of 30 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I/Extended course.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Career Preparation I</p>	<p>12701141</p> <p>Grade level: 12</p> <p>HS Credit(s): 3</p> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN MANUFACTURING AB/D (PRACMANU AB/H)</b></p>	<p><b>MAH33002AB</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the business and industry environment. See the Unpaid Practicum in Manufacturing course description in the Career &amp; Technical Education, Manufacturing section of this document.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials</p> <p><u>Prerequisite(s)</u> (For Welding): Welding II/d AB</p> <p><u>Prerequisite(s)</u> (For Manufacturing P-Tech): Previous P-TECH Manufacturing coursework notated on crosswalk</p> <p><i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Technical, and Dunbar (P-TECH)</i></p>	<p>13033000</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>HONORS PAID PRACTICUM IN MANUFACTURING/EXTENDED AB (EXPRMAN2AB/H)</b></p>	<p><b>MAH33012AB</b></p>
<p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the business and industry environment. See the Paid Practicum in Manufacturing course description in the Career &amp; Technical Education, Manufacturing section of this document.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials</p> <p><u>Prerequisite(s)</u> (For Welding): Welding II/d AB</p> <p><u>Prerequisite(s)</u> (For Manufacturing P-Tech): Previous P-TECH Manufacturing coursework notated on crosswalk</p> <p><i>Offered at: Diamond-Hill Jarvis, South Hills, Southwest, Trimble Technical, and Dunbar (P-TECH)</i></p>	<p>13033015</p> <p>Grade level: 12</p> <p>HS Credit(s): 3</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT AC/DC ELECTRONICS AB (ACDCELEC AB DC)</b></p> <p><b>TCC Course: (CETT 1409) DC-AC Circuits</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD36802AB</b></p>
<p>In this course, students learn the fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Emphasis on circuit simulation using PSpice. Course includes soldering techniques, hand tools, circuit fabrication techniques, troubleshooting techniques and circuit analysis using Mathcad.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisite(s):</u> Principles of Manufacturing</p> <p><u>TCC Prerequisite(s):</u> MATH 0362 with a minimum grade of C or appropriate TSI Math placement score.</p> <p><i>Offered only at: Dunbar (P-TECH)</i></p>	<p>13036800</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SOLID STATE ELECTRONICS A (SOSTELEC A DC)</b></p> <p><b>TCC Course: (RBTC 1401) Programmable Logic Controllers</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD36902A</b></p>
<p>In this course, students will learn about programmable logic controllers (PLC). Topics include processor units, USER numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisite(s):</u> Principles of Manufacturing</p> <p><u>TCC Prerequisite(s):</u> N/A</p> <p><i>Offered only at: Dunbar (P-TECH) and TCC South Collegiate HS (P-TECH)</i></p>	<p>13036900</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT SOLID STATE ELECTRONICS B (SOSTELEC B DC)</b></p> <p><b>TCC Course: (CETT 1441) Solid State Circuits</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD36902B</b></p>
<p>In this course, students study various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisite(s):</u> Principles of Manufacturing</p> <p><u>TCC Prerequisite(s):</u> CETT 1409 and MATH 0362 with a minimum grade of C or appropriate TSI Math placement score</p> <p><i>Offered only at: Dunbar (P-TECH) and TCC South Collegiate HS (P-TECH)</i></p>	<p>13036900</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>

<b>DUAL CREDIT DIGITAL ELECTRONICS AB (DIGELC DC AB)</b> <b>TCC Course: (CETT 1449) Digital Systems</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD37443AB</b>
<p>In this course, students will learn about electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counters, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits.</p> <p><b>Instructional Material:</b> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><b>Prerequisite(s):</b> Principles of Manufacturing</p> <p><b>TCC Prerequisite(s):</b> MATH 0362 with a minimum grade of C or appropriate TSI Math placement score.</p> <p><i>Offered only at: Dunbar (P-TECH) and TCC South Collegiate HS (P-TECH)</i></p>	<p>13037600</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT ROBOTICS I AB (ROBOT 1AB DC)</b> <b>TCC Course: (RBTC 1351) Robotics Mechanisms</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD37002AB</b>
<p>In this course, students learn the application of principles and the calculation of practical problems involving four bar linkages, cams, gears, and gear trains. Topics include vector quantities, angular displacement, motion concepts, velocities, and motions.</p> <p><b>Instructional Material:</b> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><b>Prerequisite(s):</b> None</p> <p><b>TCC Prerequisite(s):</b> MATH 1332</p> <p><i>Offered only at: Dunbar (P-TECH) and TCC South Collegiate HS (P-TECH)</i></p>	<p>13037000</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT BASIC FLUID POWER AB (BASICFP AB DC)</b> <b>TCC Course: (HYDR 1345) Hydraulics and Pneumatics</b> <i>*Course offerings may vary each year due to availability</i>	<b>MAD03683AB</b>
<p>In this course, students learn the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.</p> <p><b>Instructional Material:</b> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><b>Prerequisite(s):</b> Principles of Manufacturing</p> <p><b>TCC Prerequisite(s):</b> NA</p> <p><i>Offered only at: Dunbar (P-TECH)</i></p>	<p>N1303683</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT ROBOTICS II AB (ROBOTIC 2AB DC)</b> <b>TCC Course: (RBTC 2445) Robot Application, Set-up, and Testing</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD37003AB</b>
<p>In this course, students engage in a capstone course that provides the student with laboratory experience in the installation, set-up, and testing of robotic cells. Topics include maintenance.</p> <p><b>Instructional Material:</b> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><b>Prerequisite(s):</b> Principles of Manufacturing, Robotics I</p> <p><b>TCC Prerequisite(s):</b> NA</p> <p><i>Offered only at: Dunbar (P-TECH)</i></p>	<p>13037050</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT INTRODUCTION TO COMPUTER AIDED DESIGN AND DRAFTING A (INTRCADD A DC)</b> <b>TCC Course: (DFTG 1305) Technical Drafting</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD03769A</b>
<p>In this course, students get an introduction to reading, interpreting, and developing technical drawings, including the principles of drafting and computer-aided design.</p> <p><b>Instructional Material:</b> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><b>Prerequisite(s):</b> Principles of Manufacturing</p> <p><b>TCC Prerequisite(s):</b> NA</p> <p><i>Offered only at: Dunbar (P-TECH)</i></p>	<p>N1303769</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT INTRODUCTION TO COMPUTER AIDED DESIGN AND DRAFTING B (INTRCADD B DC)</b> <b>TCC Course: (DFTG 1409) Basic Computer-Aided Drafting</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD03769B</b>
<p>In this course, students get an introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinate systems, and plot/print to scale.</p> <p><b>Instructional Material:</b> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><b>Prerequisite(s):</b> Principles of Manufacturing</p> <p><b>TCC Prerequisite(s):</b> DFTG 1305</p> <p><i>Offered only at: Dunbar (P-TECH)</i></p>	<p>N1303769</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>

<b>DUAL CREDIT INTERMEDIATE COMPUTER AIDED DESIGN AND DRAFTING AB (INTMCADD AB DC)</b> <b>TCC Course: (DFTG 2440) Solid Modeling/Design</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD03770AB</b>
In this course, students learn the development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work.	N1303770 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> Principles of Manufacturing <u>TCC Prerequisite(s):</u> None <i>Offered only at: Dunbar (P-TECH)</i>	HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT MANUFACTURING ENGINEERING TECHNOLOGY I A (MANENGT1 A DC)</b> <b>TCC Course: (MCHN 1338) Basic Machine Shop I</b> <i>*Course offerings may vary each year due to availability</i>	<b>MAD32900A</b>
In this course, students are introduced to machining fundamentals. The student will use basic machine tools including the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.	13032900 Grade level: 10-12 HS Credit(s): 0.5
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> Principles of Manufacturing <u>TCC Prerequisite(s):</u> DFTG 1305 and DFTG 1409 <i>Offered only at: Dunbar (P-TECH)</i>	College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT MANUFACTURING ENGINEERING TECHNOLOGY I B (MANENGT1 B DC)</b> <b>TCC Course: (MCHN 2303) Fundamentals of CNC Machine Controls</b> <i>*Course offerings may vary each year due to availability</i>	<b>MAD32900B</b>
In this course, students are introduced to programming and operation of Computer Numerical Controlled (CNC) machine shop equipment.	13032900 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> Principles of Manufacturing <u>TCC Prerequisite(s):</u> DFTG 1305 and DFTG 1409 <i>Offered only at: Dunbar (P-TECH)</i>	HS Credit(s): 0.5 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT INTRODUCTION TO AIRCRAFT TECHNOLOGY AB (INAIIRTEC AB DC)</b> <b>TCC Course: (AERM 1315) Aviation Science</b> <i>*Course offerings may vary each year due to availability</i>	<b>TPD39401AB</b>
In this course, students learn the fundamentals of mathematics, physics, and drawings as they apply to aircraft principles and operations as required by the Federal Aviation Administration (FAA) for airframe and powerplant mechanics.	13039350 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> Principles of Manufacturing <u>TCC Prerequisite(s):</u> NA <i>Offered only at: Dunbar (P-TECH)</i>	College Hour(s): 3 <b>Tier I</b>



# Cybersecurity P-TECH Academy – STEM Endorsement

## FOR THE GRADUATING CLASS OF 2024 and beyond

The Cybersecurity P-TECH Academy offers two (2) Career Focuses.

<b>Eastern Hills High School Cybersecurity P-TECH Academy Cybersecurity Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I	English I	English II	English II	English III	English III	English IV	English IV
	World Geography	World Geography	World History	World History	US History	US History	US Government	Economics
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or Pre-Calculus	Algebra II or Pre-Calculus	Calculus or Pre-Calculus	Calculus or Pre-Calculus
	Biology	Biology	Chemistry	Chemistry	Physics	Physics	Advanced Science	Advanced Science
	Health	PE	Dual Credit Fine Arts	Dual Credit Speech	PE			
	Dual Credit Principles of IT AB (ITD27201AB) AND Dual Credit Computer Maintenance I AB (ITD27302AB)	Dual Credit Foundations of Cybersecurity AB (ITD27904AB) AND Dual Credit Networking AB (ITD27402AB)	Dual Credit Computer Science II AB (TAD2153AB)	Dual Credit Fundamentals of Computer Science AB (TAD2140AB)	Dual Credit Internetworking Technologies 1A (ITD28012A) AND Dual Credit Digital Forensics A (TAD80360A)	Dual Credit Internetworking Technologies 1B (ITD28012B)	Dual Credit Digital Forensics B (TAD80360B)	Dual Credit Cybersecurity Capstone AB (ITD27900AB)
	AVID 1	AVID 1	AVID 2	AVID 2	1 Student Choice	2 Student Choices	2 Student Choices	3 Student Choices
<b>College</b>	<b>COSC 1301<sup>a</sup></b>	<b>CPMT1403</b>	<b>ITNW 1425</b>	<b>ITSY 1300</b>	<b>ITSY 2400<sup>a</sup></b>	<b>ITSY 2401<sup>a</sup></b>	<b>ITSY 2342<sup>b</sup></b>	<b>ITSY 2459</b>
		<b>ITNW 1309</b>			<b>ITSY 2341<sup>a</sup></b>	ITSY 2330 <sup>a</sup>	ITSY 2372 <sup>b</sup>	
			ARTS 1301 <sup>4</sup> or DRAM 1310 <sup>4</sup> or MUSI 1310 <sup>4</sup>	SPCH 1311 <sup>2</sup> or SPCH 1315 <sup>2</sup> or SPCH 1321 <sup>2</sup>	MATH 1314 <sup>3</sup> or MATH 1316 <sup>3</sup> or MATH 2412 <sup>3</sup> or MATH 2413 <sup>3</sup>		MATH 1314 <sup>3</sup> or MATH 1316 <sup>3</sup> or MATH 2412 <sup>3</sup> or MATH 2413 <sup>3</sup>	PSYC 2301 <sup>5</sup> or ECON 2301 <sup>5</sup> or SOCI 1301 <sup>5</sup>
					ENGL 1301 <sup>1</sup>	ENGL 1302 or ENGL 2311	ENGL 1301 <sup>1</sup>	ENGL 1302 or ENGL 2311
<b>Hrs.</b>	Up to 6	Up to 7	Up to 7	Up to 7	Up to 14	Up to 10	Up to 13	Up to 10
<b>Associate Degree: AAS Cybersecurity - 60 hours</b> <b>College Level Certification(s):</b> Cybersecurity Specialist, Level I certification - 27 hours; Ethical Hacking, Level 2 certification – 47 hours *TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students who complete Principles of IT, Foundations of Cybersecurity, Internetworking Technologies I, and Cybersecurity Capstone will have met requirements for the Cybersecurity Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.								

**Eastern Hills High School  
Cybersecurity P-TECH Academy  
Programming Crosswalk**

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I	English I	English II	English II	English III	English III	English IV	English IV
	World Geography	World Geography	World History	World History	US History	US History	US Government	Economics
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or Pre-Calculus	Algebra II or Pre-Calculus	Calculus or Pre-Calculus	Calculus or Pre-Calculus
	Biology	Biology	Chemistry	Chemistry	Physics	Physics	Advanced Science	Advanced Science
	Health	PE	Fine Arts	Speech	PE			
	Dual Credit Principles of IT AB (ITD27201AB) AND Dual Credit Computer Maintenance IAB (ITD27302AB)	Dual Credit Foundations of Cybersecurity AB (ITD27904AB) AND Dual Credit Networking AB (ITD27402AB)	Dual Credit Computer Science II AB (TAD2153AB)	Dual Credit Fundamentals of Computer Science AB (TAD2140AB)	Dual Credit Computer Science III AB (TAD2155AB)	Dual Credit Independent Study in Technology Applications AB (TAD2144AB)		Dual Credit Engineering Applications of Computer Science Principles AB (STD03772AB)
	AVID 1	AVID 1	AVID 2	AVID 2	1 Student Choice	2 Student Choice	3 Student Choice	3 Student Choice
<b>College</b>	<b>COSC 1301<sup>a</sup></b>	<b>CPMT 1403</b>	<b>COSC 1436</b>	<b>ITSY 1300</b>	<b>ITSE-1479<sup>a</sup></b>	<b>ITSE-2417<sup>a</sup></b>	ITSE-2409 <sup>b</sup>	<b>ITSE-1450<sup>b</sup></b>
		<b>ITNW 1309</b>	<b>ITNW 1425</b>		<b>COSC 1437<sup>a</sup></b>	<b>COSC-2436<sup>b</sup></b>		
			ARTS 1301 <sup>4</sup> or DRAM 1310 <sup>4</sup> or MUSI 1310 <sup>4</sup>	SPCH 1311 <sup>2</sup> or SPCH 1315 <sup>2</sup> or SPCH 1321 <sup>2</sup>	MATH 1314 <sup>3</sup> or MATH 1316 <sup>3</sup> or MATH 2412 <sup>3</sup> or MATH 2413 <sup>3</sup>		MATH 1314 <sup>3</sup> or MATH 1316 <sup>3</sup> or MATH 2412 <sup>3</sup> or MATH 2413 <sup>3</sup>	PSYC 2301 <sup>5</sup> or ECON 2301 <sup>5</sup> or SOCI 1301 <sup>5</sup>
					ENGL 1301 <sup>1</sup>	ENGL 1302 or ENGL 2311	ENGL 1301 <sup>1</sup>	ENGL 1302 or ENGL 2311
<b>Hrs.</b>	Up to 6	Up to 7	Up to 7	Up to 7	Up to 15	Up to 11	Up to 11	Up to 10
<b>Degree: AAS-Programming</b> - 60 hours <b>College Level Certification(s):</b> Programming I, Level 1 – 16 hours; Programming II, Level 2 – 45 hours *TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students who complete Fundamentals of Computer Science, Computer Science II, Computer Science III, and Independent Study in Technology Applications will have met requirements for the Programming and Software Development Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.								

## COURSE DESCRIPTIONS FOR THE CYBERSECURITY P-TECH

<p><b>DUAL CREDIT PRINCIPLES OF INFORMATION TECHNOLOGY AB (PRINIT DC AB)</b>  <b>TCC Course: (COSC 1301) Introduction to Computing +</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ITD27201AB</b></p>
<p>Students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. Additionally, students will learn an overview of computer systems-hardware, operating systems, the Internet, and application software including word processing, spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other interdisciplinary settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.</p>	<p>13027200            Grade level: 9 - 10            HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>Corequisites:</u> Dual Credit Computer Maintenance AB  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Diamond Hill Jarvis (P-TECH), Eastern Hills (P-TECH), South Hills (P-TECH), and TCC South Collegiate (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT FUNDAMENTALS OF COMPUTER SCIENCE AB (TAFCS DC AB)</b>  <b>TCC Course: (CPMT 1403) Introduction to Computer Technology</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>TAD2140AB</b></p>
<p>Students will gain an understanding of current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.</p>	<p>03580140            Grade level: 10 – 12            HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Eastern Hills (P-TECH) and South Hills (P-TECH)</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT FOUNDATIONS OF CYBERSECURITY AB (FODCYBER AB DC)</b>  <b>TCC Course: (ITSY 1300) Fundamentals of Information Security</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ITD27904AB</b></p>
<p>Students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity. A variety of courses are available to students interested in this field. Foundations of Cybersecurity may serve as an introductory course in this field of study. Additionally, the college course will introduce students to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed.</p>	<p>03580850            Grade level: 9            HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>Corequisites:</u> Dual Credit Networking AB  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT NETWORKING AB (NTWRK DC AB)</b>  <b>TCC Course: (ITNW 1425) Fundamentals of Networking Technologies</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ITD27402AB</b></p>
<p>Students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Additionally, students receive instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.</p>	<p>13027400            Grade level: 10 – 11            HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> Dual Credit Computer Maintenance  <u>Corequisites:</u> Dual Credit Foundations of Cybersecurity AB  <u>TCC Prerequisite(s):</u> ITSC 1305 Introduction to PC Operating Systems  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH) and South Hills (P-TECH)</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>

<b>DUAL CREDIT COMPUTER SCIENCE II (TACS 2 DC AB)</b> <b>TCC Course: (COSC 1436) Programming Fundamentals I+</b>	<b>TAD2153AB</b>
<i>*Course offerings may vary each year due to availability</i>	
<p>Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. Additionally, will be introduced to the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science.</p>	03580300 Grade level: 10 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of IT AB  <u>TCC Prerequisite(s):</u> COSC 1301 Introduction to Computing +  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH) and South Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT COMPUTER SCIENCE III (TACS 3 DC AB)</b> <b>TCC Course: (COSC 1437) Programming Fundamentals II +</b>	<b>TAD2155AB</b>
<i>*Course offerings may vary each year due to availability</i>	
<p>Students learn advanced skills in programming languages and structured programming techniques through the use of advanced data structures and the discussion of memory allocation and de-allocation. The course offers students the opportunity to explore projects related to individual interests such as business applications, computer graphics, and sound. Additionally, the college course will focus on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. (This course is included in the Field of Study Curriculum for Computer Science.)</p>	03580350 Grade level: 10 - 11 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Algebra I; Dual Credit Computer Science 1AB  <u>TCC Prerequisite(s):</u> COSC 1436 Programming Fundamentals I +  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT INDEPENDENT STUDY IN TECHNOLOGY AB (TBD: TAIND AB DC)</b> <b>TCC Course: (COSC 2436) Programming Fundamentals III</b>	<b>TAD2144AB</b>
<i>*Course offerings may vary each year due to availability</i>	
<p>Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of advanced computer science data structures through the study of technology operations, systems, and concepts. Additionally, the college course will include further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), searching, sorting, recursion, and algorithm analysis. Programs will be implemented in an appropriate object-oriented language. (This course is included in the Field of Study Curriculum for Computer Science.)</p>	03580900 Grade level: 11 - 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> DC Computer Science II AB  <u>TCC Prerequisite(s):</u> COSC 1437 Programming Fundamentals II +  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>

<p><b>DUAL CREDIT COMPUTER SCIENCE I AB (TACS 1 DC AB)</b>  <b>TCC Course: (ITNW 1309) Fundamentals of Cloud Computing</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>TAD2151AB</b>
<p>Students will be introduced to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.</p>	03580200 Grade level: 11-12
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Carter-Riverside HS (P-TECH)</i></p>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT ENGINEERING APPLICATIONS FOR COMPUTER SCIENCE PRINCIPLES (EACSP AB DC)</b>  <b>TCC Course: (ITSE 1450) System Analysis and Design</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>STD03772AB</b>
<p>This is a design-based high school course for students who want to expand and deepen their engineering design skills and habits of mind through the purposeful integration and application of computer science (CS) principles and practices. Developed by University of Texas, this hands-on course engages students in authentic, integrated engineering and CS practices in a project-based environment. Additionally, students will be introduced to the planning, design, and construction of computer information systems using the systems development life cycle and other appropriate design tools.</p>	N1303772 Grade level: 11 - 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Computer Science III  <u>TCC Prerequisite:</u> COSC 1436 Programming Fundamentals 1+  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>
<p><b>HONORS INTERNETWORKING TECHNOLOGIES I AB (INTNET1 AB/H)</b></p>	<b>ITH28012AB</b>
<p>Using a lab setting that corresponds to the work place, students design local and wide-area networks. Students focus on network fundamentals, router theory, router technologies, network design, and network management. Students begin preparation for CISCO industry certification. Students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p>	N1302803 Grade level: 11 - 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Networking I AB, excludes P-TECH programs  <i>Teacher must be CISCO certified.</i>  <i>Offered only at: Carter Riverside and Eastern Hills</i></p>	College Hour(s): NA <b>Tier II</b>
<p><b>DUAL CREDIT INTERNETWORKING TECHNOLOGIES I A (INTNET1 A DC) (Available Fall 2023)</b>  <b>TCC Course: (ITSY 2400) Operating System Security</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ITD28012A</b>
<p>Using a lab setting that corresponds to the work place, students design local and wide-area networks. Students focus on network fundamentals, router theory, router technologies, network design, and network management. Students begin preparation for CISCO industry certification. Additionally, students will learn how to safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Students will identify security threats, monitor network security implementations and use best practices to configure operating systems to industry security standards.</p>	N1302803 Grade level: 11 - 12 HS Credit(s): .5
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Foundations of Cybersecurity AB  <u>Corequisite:</u> Dual Credit Digital Forensics A  <u>TCC Prerequisite(s):</u> ITSY 1300 Fundamentals of Information Security  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>
<p><b>DUAL CREDIT INTERNETWORKING TECHNOLOGIES I B (INTNET1 A DC) (Available Fall 2023)</b>  <b>TCC Course: (ITSY 2401) Firewalls and Network Security</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ITD28012B</b>
<p>Using a lab setting that corresponds to the work place, students design local and wide-area networks. Students focus on network fundamentals, router theory, router technologies, network design, and network management. Students begin preparation for CISCO industry certification. Additionally, the college course will help students learn to identify elements of firewall design, types of security threats and responses to security attacks. Use Best Practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities.</p>	N1302803 Grade level: 11 - 12 HS Credit(s): .5
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Foundations of Cybersecurity AB  <u>TCC Prerequisite(s):</u> ITSY 1300 Fundamentals of Information Security  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered only at: Eastern Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>

<b>DUAL CREDIT DIGITAL FORENSICS A (TADGFR A DC)</b>	<b>TAD80360A</b>
<b>TCC Course: (ITSY 2341) Security Management Practices</b>	
<i>*Course offerings may vary each year due to availability</i>	
<p>Digital Forensics introduces students to the knowledge and skills of digital forensics providing a survey of the field of digital forensics and incident response. Digital forensics is an evolving discipline concerned with analyzing anomalous activity on computers, networks, programs, and data. As a discipline, it has grown with the emergence of a globally-connected digital society. As computing has become more sophisticated, so too have the abilities of malicious agents to access systems and private information. By evaluating prior incidents, digital forensics professionals have the ability to investigate and craft appropriate responses to disruptions to corporations, governments, and individuals. Whereas cybersecurity takes a proactive approach to information assurance to minimize harm, digital forensics takes a reactive approach to incident response. Additionally, this college course provides in-depth coverage of security management, practices, including asset evaluation and risk management; cyber law and ethics issues; policies and procedures; business recovery and business continuity planning; network security design; and developing and maintaining a security plan.</p>	<p>03580360 Grade level: 9-12 HS Credit(s): 0.5</p>
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	College Hour(s): 3
<u>FWISD Prerequisite(s):</u> Dual Credit Foundations of Cybersecurity AB	<b>Tier I</b>
<u>Corequisites:</u> Dual Credit Internetworking Technologies 1A	
<u>TCC Prerequisite(s):</u> ITSY 1300 Fundamentals of Information Security	
<i>Course taught by a TCC-approved adjunct instructor</i>	
<i>Offered only at: Eastern Hills (P-TECH)</i>	
<b>DUAL CREDIT DIGITAL FORENSICS B (TADGFR B DC)</b>	<b>TAD80360B</b>
<b>TCC Course: (ITSY 2342) Incident Response and Handling</b>	
<i>*Course offerings may vary each year due to availability</i>	
<p>Digital Forensics introduces students to the knowledge and skills of digital forensics providing a survey of the field of digital forensics and incident response. Digital forensics is an evolving discipline concerned with analyzing anomalous activity on computers, networks, programs, and data. As a discipline, it has grown with the emergence of a globally-connected digital society. As computing has become more sophisticated, so too have the abilities of malicious agents to access systems and private information. By evaluating prior incidents, digital forensics professionals have the ability to investigate and craft appropriate responses to disruptions to corporations, governments, and individuals. Whereas cybersecurity takes a proactive approach to information assurance to minimize harm, digital forensics takes a reactive approach to incident response. Additionally, this college course provides in-depth coverage of incident response and incident handling, including identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; and implementing and modifying security measures.</p>	<p>03580360 Grade level: 9-12 HS Credit(s): 0.5</p>
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	College Hour(s): 3
<u>FWISD Prerequisite(s):</u> Dual Credit Internetworking Technologies 1A and Dual Credit Digital Forensics A	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> ITSY 2400 Operating System Security and ITSY 2401 Firewalls and Network Security	
<i>Course taught by a TCC-approved adjunct instructor</i>	
<i>Offered only at: Eastern Hills (P-TECH)</i>	
<b>DUAL CREDIT CYBERSECURITY CAPSTONE AB (TACYBCAP AB DC) (Available Fall 2023)</b>	<b>ITD27900AB</b>
<b>TCC Course: (ITSY 2459) Security Assessment and Auditing</b>	
<i>*Course offerings may vary each year due to availability</i>	
<p>In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.</p>	<p>03580855 Grade level: 12 HS Credit(s): 1</p>
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 4
<u>FWISD Prerequisite(s):</u> Dual Credit Internetworking Technologies 1A and Dual Credit Digital Forensics A	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> ITSY 2400 Operating System Security and ITSY 2341 Security Management Practices	
<i>Course taught by a TCC-approved adjunct instructor</i>	
<i>Offered at: Eastern Hills (P-TECH)</i>	

# Medical Professions P-TECH Academy – Public Service or STEM

## Endorsement FOR THE GRADUATING CLASS OF 2024 and beyond

The Medical Professions P-TECH Academy offers one (1) Career Focus with multiple specialized certification opportunities.

North Side High School Medical Professions P-TECH Academy Medical Professions Crosswalk								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
High School	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	English III or IV	*English IV or *English Elective	*English IV or *English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or *Pre-Calculus	Algebra II, *Pre-Calculus, or	*Pre-Calculus or *Calculus or *Statistics	*Pre-Calculus or *Calculus or *Statistics
	World Geography	World Geography	World History	World History	*US History	*US History	*Government	Economics
	Biology	Biology	*Chemistry	*Chemistry	AP Biology or Physics	AP Biology or Physics	4 <sup>th</sup> Year Science*	4 <sup>th</sup> Year Science*
	AVID or similar	AVID or similar	*Psychology World Language	Dual Credit Patho-physiology AB (HSD20801AB)				
	World Language *PE	*World Language *PE		*Speech, Art	Dual Credit Pharmacology AB (HSD02044AB)			
	Dual Credit Principles of Health Science A (HSD02022A)	Dual Credit Principles of Health Science B (HSD02022B)	Honors Health Science Theory A (HSH02042A)	Honors Health Science Theory B (HSH02042B)	Honors Practicum in Health Science I General Clinical Skills A (HSH05010A)	Honors Practicum in Health Science I- General Clinical Skills B (HSH05010B)	Honors Practicum in Health Science II: Patient Care Technician AB (HSH3020510AB)	
College	EDUC 1300		SPCH 1311	PSYC 2301	ENGL 1301 GOV 2306	ENGL 1302 or ENGL 2311	ENGL 1301 or ENGL 2322	ENGL 1302 or ENGL 2311, or ENG 2323
	KINE 1164	KINE 1116	HIST 2311	ARTS 1301	MATH 1314 or 1342	PSYCH 2301	GOVT 2305	ECON 2301
	<b>HPRS 1206~</b>	<b>HPRS 1304~</b>		<b>HPRS 2201 ~</b>	HIST 1301	HIST 1302	BIOL 2401 or 1406	BIOL 2402 or 1407
				HIST 2312	<b>HPRS 2200 ~</b>			HIST 2260
Hrs.	Up to 5	Up to 4	Up to 6+	Up to 6+	Up to 11+	Up to 9+	Up to 13+	Up to 12+
<b>Degree: Associates of Arts – 60+ hours</b> <b>College Level Certification(s):</b> Health Science Pre-Professional, Level 1 – Patient Care Technician <b>Stackable Industry Certification(s):</b> Pharmacy Technician (PhT), Dementia Specialist Certificate, Emergency Medical Technician (EMT), Patient Care Technician (PCT), Certified Nursing Assistant (CNA)								
*TSI compliance or TSI waiver will determine if the course is taken for dual credit. ~ elective credits for AA Students who complete Principles of Health Science, Health Science Theory, Pathophysiology, and Practicum in Health Science will have met requirements for the Healthcare Diagnostics Program of Study for a Public Service or STEM endorsement if the math and science requirements are met.								

## COURSE DESCRIPTIONS FOR THE MEDICAL PROFESSIONS P-TECH

<p><b>DUAL CREDIT PRINCIPLES OF HEALTH SCIENCE A: (PRINHLSC A DC)</b>  <b>TCC COURSE: (HPRS 1206) Essentials of Medical Terminology</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>HSD02022A</b></p>
<p>Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students learn that to pursue a career in the health science industry, they must be able to reason, think critically, make decisions, solve problems, and communicate effectively. They learn that quality health care depends on the ability to work well with others. Students identify and research employment opportunities, technology, and safety requirements of the different systems within health science field. They apply knowledge and skills needed to pursue a health science career. Students are expected to employ their ethical and legal responsibilities, identify limitations, as well as understand the implications of their actions. This course will also introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. Additionally, this college course focuses on the study of medical terminology, word origin, structure, and application.</p>	<p>13020200            Grade level: 9            HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI Compliance in Reading and Writing  <i>Offered only at: North Side</i></p>	<p>College Hour(s): 2  <b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF HEALTH SCIENCE B: (PRINHLSC B DC)</b>  <b>TCC Course: (HPRS 1304) Basic Health Profession Skills</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>HSD02022B</b></p>
<p>Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students learn that to pursue a career in the health science industry, they must be able to reason, think critically, make decisions, solve problems, and communicate effectively. They learn that quality health care depends on the ability to work well with others. Students identify and research employment opportunities, technology, and safety requirements of the different systems within health science field. They apply knowledge and skills needed to pursue a health science career. Students are expected to employ their ethical and legal responsibilities, identify limitations, as well as understand the implications of their actions. This course will also introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. Additionally, this college course focuses on concepts that serve as the foundation for health profession courses, including client care and safety issues, basic client monitoring, and health documentation methods.</p>	<p>13020200            Grade level: 9            HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI Compliance in Reading and Writing  <i>Offered only at: North Side</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>HONORS HEALTH SCIENCE THEORY AB (HLTHSCI AB)</b></p>	<p><b>HS02042AB</b></p>
<p>This course allows students to gain the knowledge and skills necessary for employment or continuing education in the health care industry. The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p>	<p>13020400            Grade level: 10            HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> DHO Health Science, Updated 8th Edition, Cengage Learning Inc.  <u>Prerequisite(s):</u> Dual Credit Principles of Health Science</p>	<p>College Hour(s): NA  <b>Tier II</b></p>
<p><b>DUAL CREDIT PATHOPHYSIOLOGY AB (PATHO AB)</b>  <b>TCC COURSE: (HPRS 2201) Pathophysiology</b>  <i>*Course offerings may vary each year due to availability.</i></p>	<p><b>HSD20801AB</b></p>
<p>In Dual Credit Pathophysiology, students will study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries.</p>	<p>13020800            Grade level: 10 - 12            HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> Biology and Chemistry; Dual Credit Principles of Health Science AB  <u>TCC Prerequisite(s):</u> TSI Compliance in Reading and Writing  <i>Offered only at: North Side</i></p>	<p>College Hour(s): 2  <b>Tier III</b></p>
<p><b>DUAL CREDIT PHARMACOLOGY AB (PHARM AB)</b>  <b>TCC Course: (HPRS 2200) Pharmacology for Health Professions</b></p>	<p><b>HSD02044AB</b></p>
<p>This course allows students to study drug classification, actions, therapeutics uses, adverse effects, routes of administrations, and calculation of dosage.</p>	<p>13020950            Grade level: 11-12            HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> Biology and Chemistry; Dual Credit Principles of Health Science AB  <u>Co-Requisite:</u> Practicum in Health Science I: General Clinical Skills  <i>Offered only at: North Side</i></p>	<p>College Hour(s): 2.0  <b>Tier I</b></p>



<p><b>HONORS PRACTICUM IN HEALTH SCIENCE I: GENERAL CLINICAL SKILLS/D AB</b></p> <p>In addition to the regular course curriculum, students in this honors course will complete additional projects and activities related to the program of study. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study. See the Practicum in Health Science I: General Clinical Skills course description in the Career &amp; Technical Education, Health Science Technology section of this document.</p>	<p><b>HS05010AB</b></p> <p>13020500 Grade level: 11 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Early College High School Department for more information. <u>Prerequisites:</u> Dual Credit Practicum in Health Science I: General Clinical Skills <i>Offered only at: North Side</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>HONORS PRACTICUM IN HEALTH SCIENCE II: PATIENT CARE TECHNICIAN/D AB (PHSPCT 2AB/H)</b></p> <p>The Practicum is designed to give students practical application of previously studied knowledge and skills. In this double period course, students will gain knowledge and skills to pursue a national Patient Care Technician certification. In this course the student will learn to perform skills like performing phlebotomy and ECG, taking vitals, assisting with activities of daily living, and providing comfort care. The student will gain basic knowledge of medical terms, ethics, legal issues, and anatomy and physiology. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study. See the Practicum in Health Science II: Patient Care Technician course description in the Career &amp; Technical Education, Health Science Technology section of this document.</p>	<p><b>HS30204AB</b></p> <p>13020510 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisites:</u> Honors Practicum in Health Science I: General Clinical Skills B <i>Offered only at: North Side</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>

# Education P-TECH Academy – Multidisciplinary or Public Service Endorsement

## FOR THE GRADUATING CLASS OF 2024 and beyond

The Teaching P-TECH Academy offers one (1) Career Focus.

<b>Polytechnic High School Education P-TECH Academy Education Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	*English III or IV	*English IV or *English Elective	*English IV or *English Elective
	Algebra I or Geometry or Algebra II	Algebra I or Geometry or Algebra II	Geometry or Algebra II or *Pre-Calculus	Geometry or Algebra II or *Pre-Calculus	Algebra II or *Pre-Calculus or *Statistics	Algebra II or *Pre-Calculus or *Statistics	Pre-Calculus or Calculus	Pre-Calculus or Calculus
	AP Human Geography	AP Human Geography	*US History	*US History	World History	World History	*Economics	*Government
	Biology or Chemistry	Biology or Chemistry	Chemistry or *Earth and Space Science	Chemistry or *Earth and Space Science	3 <sup>rd</sup> Year Science	3 <sup>rd</sup> Year Science	4 <sup>th</sup> Year Science or *Environmental System	4 <sup>th</sup> Year Science or *Environmental Science
	AVID 1	AVID 1	AVID 2	AVID 2	AVID 3	AVID 3	AVID 4	AVID 4
		Health		PE				
			Spanish 1, 2, 3, 4, or 5	Spanish 1, 2, 3, 4, or 5	Spanish 1, 2, 3, 4, or 5	Spanish 1, 2, 3, 4, or 5		
	Honors Principles of Education AB (EDH14201AB)	Honors Principles of Education AB (EDH14201AB)	PSAT	*Dual Credit Child Development AB (HVD24701AB)			*Dual Credit Practicum in Education & Training A (EDD14502A)	*Dual Credit Practicum in Education & Training B (EDD14502B)
<b>College</b>	KINE 1164		*HIST 1301	*HIST 1302	*ENGL 1301	*ENGL 1302	*ENGL 2327 or *MATH 1350	*ENGL 2328 or *MATH 1351
		SPCH 1311	*GEOL 1401	*TECA 1354	*TECA 1303	*PHIL 2306		
						*MATH 1314 or MATH 1342	*ECON 2301	*GOV 2305
		ARTS 1301			*PHYS 1415	*BIOL 1408	*BIOL 2306	
					GOVT 2306		*EDUC 1301	*EDUC 2301
<b>Hrs.</b>	Up to 1	Up to 6	Up to 7	Up to 6	Up to 13	Up to 13	Up to 12	Up to 9
<b>Associate Degree:</b> AA Teaching – 60 hours <b>College Level Certification(s):</b> Educational Aide I <b>Industry Certification(s):</b> Educational Aide I								
* TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students who complete Principles of Education and Training, Child Development, and Practicum in Education and Training will have met requirements for the Teaching and Training Program of Study for a Public Service endorsement.								

## COURSE DESCRIPTIONS FOR THE EDUCATION P-TECH

<p><b>HONORS PRINCIPLES OF EDUCATION AND TRAINING AB (PRINEDTR AB/H)</b></p> <p>The course, Principles of Education and Training, is designed to introduce students to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. They will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment.</p> <p><u>Instructional Material:</u> ICEV Family and consumer Sciences Site, CEV Multimedia Ltd.,</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered at: Arlington Heights, Benbrook, Carter-Riverside, Diamond Hill-Jarvis, Dunbar, Eastern Hills, North Side, Paschal, Polytechnic, South Hills, Southwest, Trimble Tech, Western Hills, and OD Wyatt</i></p>	<p><b>EDH14201AB</b></p> <p>13014200</p> <p>Grade level: 9 – 10</p> <p>HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>DUAL CREDIT CHILD DEVELOPMENT AB (CHLDDEV AB DC)</b></p> <p><b>TCC Course: (TECA 1354) Child Growth and Development</b></p> <p><i>*Course offerings may vary each year due to availability</i></p> <p>This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students are equipped with child development skills necessary to promote the well-being and healthy development of children and to investigate careers related to the care and education of children. Students explore the principles and procedures for promoting the physical, emotional, social, and intellectual development of young children, including those with special needs. Topics include characteristics of quality child care and career options related to the care and education of children. Additionally, this college course is a technical laboratory course that addresses the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisite(s):</u> Honors Principles of Education and Training AB</p> <p><u>TCC Prerequisite(s):</u> TSI</p> <p><i>Offered only at: Polytechnic (P-Tech)</i></p>	<p><b>HVD24701AB</b></p> <p>13024700</p> <p>Grade level: 9 - 12</p> <p>HS Credit(s): 1</p> <hr/> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT UNPAID PRACTICUM IN EDUCATION AND TRAINING/D A (PRACEDTR A DC)</b></p> <p><b>TCC Course: (EDUC 1301) Introduction to the Teaching Profession</b></p> <p><i>*Course offerings may vary each year due to availability</i></p> <p>This college courses includes the study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence. An enriched, integrated pre-service course and content experience that provides active recruitment and institutional support of students interested in a teaching career, especially in high-need fields. The course provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations and provides students with support from college and school faculty, preferable in small cohort groups, for the purpose of introduction to analysis of the culture of schooling and classrooms. Course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Course must include a minimum of 16 contact hours of field experience in P-12 classrooms. Criminal background check required prior to enrolling. Field experience required.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>FWISD Prerequisite(s):</u> Dual Credit Child Development AB</p> <p><u>TCC Prerequisite(s):</u> TSI</p> <p><i>Course taught by an approved adjunct instructor.</i></p> <p><i>Offered only at: Polytechnic (P-Tech))</i></p>	<p><b>EDD14502A</b></p> <p>13014500</p> <p>Grade level: 12</p> <p>HS Credit(s): 1</p> <hr/> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT UNPAID PRACTICUM IN EDUCATION AND TRAINING/D B (PRACEDTR B DC)</b></p> <p><b>TCC Course: (EDUC 2301) Introduction to Special Populations</b></p> <p><i>*Course offerings may vary each year due to availability</i></p> <p>This college courses includes an enriched, integrated pre-service course and content experience that provides an overview of schooling and classrooms from the perspective of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning. The course provides students with opportunities to participate in early field observations of P-12 special populations and should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Must include a minimum of 15 contact hours of field experience in P-12 classrooms with special populations. Criminal background check required prior to enrolling.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>FWISD Prerequisite(s):</u> Dual Credit Practicum in Education and Training A</p> <p><u>TCC Prerequisite(s):</u> EDUC 1301 Introduction to the Teaching Profession</p> <p><i>Course taught by an approved adjunct instructor.</i></p> <p><i>Offered only at: Polytechnic (P-Tech)</i></p>	<p><b>EDD14502B</b></p> <p>13014500</p> <p>Grade level: 12</p> <p>HS Credit(s): 1</p> <hr/> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>

# Energy P-TECH Academy – Multidisciplinary Endorsement

## FOR THE GRADUATING CLASS OF 2022 and beyond

The Energy P-TECH Academy offers three (3) Career Focuses.

### Tarrant County College South/FWISD Collegiate High School Energy P-TECH Academy Electrical Line Technician Crosswalk

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	*English III or IV	*English IV or *English Elective	*English IV or *English Elective
	Algebra I or Algebra 2	Algebra I or Algebra 2	Geometry or Algebra II+ Geometry	Geometry or Algebra II+ Geometry	*Statistics	*Pre-Calculus	*Pre-Calculus	* Calculus I
	*AP Human Geography	*AP Human Geography	*AP World History	*AP World History	*AP US History	*AP US History	*Government	*Economics
	Environmental Systems	Environmental Systems	Biology/ Physics *Chemistry	Biology/ Physics *Chemistry	Physics or *Chemistry	Physics or *Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	Honors Principles of Applied Engineering AB (STH36202 AB)	Honors Principles of Applied Engineering AB (STH36202 AB)	Personal Financial Literacy	Dual Credit Principles of Information Technology AB (ITD27201AB)	Dual Credit Distribution and Logistics for Energy AB (TPD40300A B) AND Dual Credit Applied Mathematics for Technical Professionals AB (CPD0678AB)	Dual Credit Electrical Technology I AB (ARD05602 AB)	Dual Credit Construction Technology I AB (ARD00512 AB) OR Honors Project-Based Research A (STH01500A) OR Career Prep A (CP01302A)	Dual Credit HVAC and Refrigeration Technology I (MAD05800AB) OR Honors Project-Based Research B (STH01500B) OR Career Prep B (CP01300B)
<b>College</b>	SPAN 1411 4	SPAN 1412 4	SPCH 1321	KINE 1304	*GOVT 2305	*Behavioral Science 3	*ENGL 1301	*ENGL 1302 or 2311 3
	KINE (PE) 1	KINE 1164 1	*ARTS	<b>COSC 1301</b>	<b>LNWK 1341</b>	<b>HART 1401</b>	LNWK 1371	*ECON 2302
			LNWK 1301	LNWK 2321	<b>TECM 1303</b>	LNWK 2322	LNWK 2324	LNWK 1311
					LNWK 2321		<b>OSHT 1305</b>	<b>HART 2431</b>
					LNWK 1241		GEOL 1305	
							HYDR 1301	ELPT 2347
<b>Hrs.</b>	Up to 5	Up to 5	Up to 10	Up to 10	Up to 11	Up to 10	Up to 15	Up to 16
	<b>Degree:</b> AAS Electronics Line Technician - 60+ hours <b>College Level Certification(s):</b> Ground Technician Level 1 – 25 hours; Renewable Line Technician Level 2 – 44 hours							
*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.								

**Tarrant County College South/FWISD Collegiate High School**  
**Energy P-TECH Academy**  
**Advanced Energy Technician Crosswalk**

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	*English III or IV	*English IV or *English Elective	*English IV or *English Elective
	Algebra I or Algebra 2	Algebra I or Algebra 2	Geometry or Algebra II + Geometry	Geometry or Algebra II + Geometry	*Statistics	*Pre-Calculus	*Pre-Calculus	* Calculus I
	AP Human Geography	AP Human Geography	AP World History	AP World History	*AP US History	*AP US History	Government	Economics
	Environmental Systems	Environmental Systems	Biology/ Physics Chemistry Personal Financial Literacy	Biology/ Physics Chemistry	Physics or Chemistry	Physics or Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	Honors Principles of Applied Engineering AB (STH36202 AB)	Honors Principles of Applied Engineering AB (STH36202AB)	Dual Credit Solid State Electronics A (STD36902 A)	Dual Credit Robotics I AB (STD37002AB)	Dual Credit Digital Electronics AB (STD37443A B) AND Dual Credit AC/DC Electronics AB (STD36802A B)	Dual Credit Solid State Electronics B (STD36902 B)	Honors Project-Based Research AB (STH01500AB) OR Career Prep AB (CP01300AB)	Honors Project-Based Research AB (STH01500B) OR Career Prep AB (CP01300AB)
<b>College</b>	SPAN 1411 4 or SPAN 2311 3	SPAN 1412 4 or SPAN 2312 3	KINE 1304	SPCH 1321	MATH 1314	MATH 1343	*ENGL 1301 GOV 2305	*ENGL 1302 or 2311 ECON 2301
	KINE (PE) 1	KINE 1164 1	ARTS	<b>ELMT 1402*</b>	<b>CETT 1449 (LAB)</b>	<b>*CETT 1441</b>	<b>*CETT 1445</b>	* ELMT 2337
		<b>PTRT 1313</b>	<b>RBTC 1401</b>	ELMT 1042 (LAB)	<b>*CETT 1449</b>	<b>WIND 2459</b>	WIND 2459 (LAB)	
		PTRT 1313 (LAB)	RBTC 1401 (LAB)	<b>RBTC 1351</b>	<b>CETT 1409</b>		*CSIR 1459	<b>* CETT 2435</b>
		LAB	LAB	LAB				
<b>Renewable Energy Technology Level 1 Certificate</b>		PTRT 1313 (3) + LAB	<b>RBTC 1401 (Lab)</b>	ELMT 1402 (4) (Lab)	<b>* CETT 1449 (Lab)</b>	<b>* CETT 1409 (Lab)</b>	WIND 2459 (Lab)	* ELMT 2337 (Lab)
<b>Hrs.</b>	Up to 5	Up to 7	Up to 10	Up to 10	Up to 11	Up to 11	Up to 14	Up to 13

**Degree:** AAS Electronics Technology, Advanced Energy Technician – 60 hours  
**College Level Certification(s):** Renewable Energy Technology Level 1 – 29 hours

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.  
 Students who complete Principles of Applied Engineering, Solid State Electronics, Digital Electronics, and AC/DC Electronics will have met requirements for the Renewable Energy Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.

**Tarrant County College South/FWISD Collegiate High School  
Energy P-TECH Academy  
Energy Business Crosswalk**

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or III	English III or IV	English III or IV	English IV or English Elective	English IV or *English Elective
	Algebra I or Algebra 2	Algebra I or Algebra 2	Geometry and/or Algebra II	Geometry and/or Algebra II	*Statistics	*Pre-Calculus	*Pre-Calculus	* Calculus I
	AP Human Geography	AP Human Geography	AP World History	AP World History	*AP US History	* AP US History	Government	Economics
	Environmental Systems	Environmental Systems	Biology Personal Financial Literacy	Biology	Physics or Chemistry	Physics or Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	Honors Principles of Applied Engineering AB (STH36202 AB)	Honors Principles of Applied Engineering AB (STH36202A B)	Dual Credit Business Management AB (BAD12102 AB)	Dual Credit Business English AB (BAD11600 AB)	Dual Credit Advanced Marketing AB (MKD34700 AB) AND Dual Credit Accounting 1A (FND16612A)	Dual Credit Accounting 1B (FND16612 B)	Dual Credit Business Law AB (BAD11701 AB) AND/OR Honors Practicum in Business Management AB (BAH12202 AB) OR Honors Project-Based Research AB (STH01500AB) OR Career Prep AB (CP01300AB)	Honors Practicum in Business Management AB (BAH12202 AB) OR Honors Project-Based Research AB (STH01500AB) OR Career Prep AB (CP01300AB)
<b>College</b>	KINE (PE) 1	KINE 1164	KINE 1304	SPCH 1321	*ENGL 1301	*ENGL 1302	*ENGL 1301 or 2322 or 2327	*ENGL 1302 or 2311 or 2323 or 2328
	SPAN 1411 or SPAN 2311	SPAN 1412 or SPAN 2312	ARTS 1301	Language/ Culture	*MATH 1314 or 1342	*MATH 2412	*MATH 1314 or 2413 or 1342	*MATH 2412 or 2414
			<b>BUSI 1301</b>	<b>BCIS 1305</b>	*HIST 1301	*HIST 1302	*ECON 2301	*ECON 2302
					*GOVT 2306	*GOVT 2305	<b>BUSI 2305</b>	
					<b>ACCT 2301</b>	<b>ACCT 2302</b>	*BIOL 1406/1408 or *PHYS 1401 or *GEOL 1401	*BIOL 1407/1409 or *PHYS 1402 or *GEOL 1403
<b>Business Level Certificate</b>			BUSI 1301 MRKG	BMGT 1305	ACCT 1301	ACCT 1302	ECON 2301 BUSI 2301	ECON 2302
<b>Hrs.</b>	Up to 5	Up to 5	Up to 10	Up to 10	Up to 15	Up to 16	Up to 16	Up to 16
	<b>Degree:</b> AA Business - 60+ hours <b>College Level Certification(s):</b> Business Certification Level 1 – 24 hours <b>Industry Certification(s):</b> Microsoft Office Expert – Word, PowerPoint, Excel, and/or Office 365							

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course.  
 Students who complete Business Management, Business Law, and Practicum in Business Management will have met requirements for the Business Management Program of Study for a Business and Industry endorsement.

**TCC SOUTH/FWISD Collegiate HS**  
**Associates of Arts in Business /HS Diploma [Business Level 1 Certification] Multidisciplinary**  
**Endorsement**

	9th Grade		10th Grade		11th Grade		12th Grade	
	Fall Semester	Spring Semester	Fall Semester	Spring Semester	Fall Semester	Spring Semester	Fall Semester	Spring Semester
High School	English I or II	English I or II	English II or *III	English II or III	English III or IV	English III or IV	English IV or English Elective	English IV or *English Elective
	Algebra I or Algebra II	Algebra I or Algebra II	Geometry or Algebra II + Geometry	Geometry or Algebra II + Geometry	*Statistics	*Pre-Calculus	*Pre-Calculus	* Calculus I
	Honors Human Geography	Honors Human Geography	AP World History	AP World History	AP US History	AP US History	Government	Economics
	Environmental Systems	Environmental Systems	Biology	Biology	Physics or Chemistry	Physics or Chemistry	4th Year Science	4th Year Science
	CTE – PAE	CTE – PAE	<i>PFL or Health (Edgenuity)</i>		PROBS1	PROBS1	Practicum in Business or PROBS 1/2	Practicum in Business or PROBS 1/2
College AA in Business	<b>KINE 11XX</b>	<b>KINE 1164 (1)</b>	<b>KINE 1304 (</b>	<b>SPCH 1321</b>	<b>*ENGL 1301 (</b>	<b>*ENGL 1302</b>	<b>*ENGL 2322</b>	<b>*ENGL 2323 (</b>
	<b>SPAN 1411</b>	<b>SPAN 1412</b>	<b>ARTS 1301</b>	<b>*PHIL 1301 OR SPAN 2311 OR HUMA 1301 OR ENGL 2322</b>	<b>*MATH 1314 03101100 or 1342</b>	<b>*MATH 2412 or 1342</b>	<b>*MATH 1324</b>	<b>*MATH 2414</b>
			<b>USI 1301</b>	<b>BCIS 1305</b>	<b>*HIST 1302 (3) 03340100</b>	<b>*HIST 1301 (3) 03340100</b>	<b>ECON 2301</b>	<b>ECON 2302</b>
					<b>*GOVT 2306</b>	<b>*GOVT 2305</b>	<b>BUSI 2305</b>	
					<b>ACCT 2301</b>	<b>ACCT 2302</b>	<b>*BIOL 1408 or *PHYS 1401 or PHYS 1415 or GEOL 1401 4 or *CHEM 1411</b>	<b>*BIOL1409 110, PHYS1402 or GEOL 1403 4 or CHEM 1412</b>
Business Level 1 Certificate			<b>BUSI 1301</b>	<b>BMGT 1305</b>	<b>ACCT 2301</b>	<b>ACCT 2302</b>	<b>ECON 2301</b>	<b>ECON 2302</b>
			<b>MRKG 1311</b>				<b>BUSI 2301 (3) 13011700</b>	
	Up to 5 hours	Up to 5 hours	Up to 9 hours	Up to 9 hours	Up to 15 hours	Up to 15-16 hours	Up to 15 hours	Up to 15 hours

Associate of Arts in Business (AART.D005.UG)  
 Business Certification Level 1 (BUAD.T011.UG)  
 Business Certification Level 2 (BUAD.T012.UG)  
**Industry Certification(s):** Microsoft Office Expert – Word, PowerPoint, Excel, and/or Office 365

Business Level 2 certification additional courses: BCIS 1305, BMGT 1327, BMGT 1341

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and Seniors that are not TSI met will take AP courses in-lieu of dual credit course.

## COURSE DESCRIPTIONS FOR BUSINESS ADMINISTRATION P-TECH

<p><b>DUAL CREDIT BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB DC)</b>  <b>TCC COURSE: Business Computer Applications (BCIS 1305)</b>  <i>*Courses may change due to availability</i></p>	<p><b>BAD11412AB</b></p>
<p>Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets databases, presentation graphics, and business-oriented utilization of the Internet.</p>	<p>13011400</p>
<p><u>Instructional Material:</u> TCC Course: Business Computer Applications (BCIS 1305)  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI  <i>Offered only at: Marine Creek, Success HS, YWLA, and TCC South Collegiate HS (P-Tech)</i></p>	<p>Grade level: 9 - 12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ADVANCED MARKETING (ADVMKTG AB DC)</b>  <b>TCC COURSE: PRINCIPLES OF MARKETING (MRKG 1311)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>MKD34700AB</b></p>
<p>In this course, students will gain an introduction to the marketing mix functions and processes. The course topics include: identification of consumer and organizational needs and explanation of environmental issues.</p>	<p>13034700</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> Dual Credit Business Management  <u>TCC Prerequisite(s):</u> None  <i>Offered only at: Marine Creek, Success HS, YWLA, and TCC South Collegiate HS (P-Tech)</i></p>	<p>Grade level: 11 - 12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT BUSINESS MANAGEMENT AB (BUSMGT AB DC)</b>  <b>TCC COURSE: (BUSI 1301) Business Principles</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD12102AB</b></p>
<p>This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making process. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and International business.</p>	<p>13012100</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Offered only at: Success HS and YMLA</i></p>	<p>Grade level: 9-12            HS Credit(s): 1            College Hour(s): 3            Tier I</p>
<p><b>DUAL CREDIT BUSINESS LAW (BUSLAW AB DC)</b>  <b>TCC COURSE: BUSINESS LAW (BUS 2301)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD11701AB</b></p>
<p>This course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.</p>	<p>13011700</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <i>Offered only at: TCC South Collegiate HS (P-Tech), Success HS, and Diamond Hill Jarvis (P-Tech)</i></p>	<p>Grade level: 9 - 12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ACCOUNTING IA (ACCOUNT1 A DC)</b>  <b>TCC Course: Principles of Financial Accounting: (ACCT 2301)</b>  <i>*Courses may change due to availability</i></p>	<p><b>FND16612A</b></p>
<p>This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).</p>	<p>13016600</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI compliant in Math  <u>TCC Recommended Co-requisites:</u> MATH 1324  <i>Offered only at: YMLA and Success HS</i></p>	<p>Grade level: 9 - 12            HS Credit(s): 0.5            College Hour(s): 3  <b>Tier I</b></p>



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**DUAL CREDIT ACCOUNTING IB (ACCOUNT1B DC)****FND16612B****TCC Course: Principles of Managerial Accounting: (ACCT 2302)***\*Courses may change due to availability*

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This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation.

13016600  
Grade level: 11 - 12  
HS Credit(s): 0.5

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Instructional Material: TCC Course: Principles of Managerial Accounting (ACCT 2302)

TCC Prerequisite(s): ACCT-2301

*Course taught by an approved adjunct instructor.*

*Offered only at: Marine Creek, Success HS, and TCC South Collegiate HS (P-Tech)*

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College Hour(s): 3**Tier I**

## COURSE DESCRIPTIONS FOR THE ENERGY P-TECH

<p><b>HONORS PRINCIPLES OF APPLIED ENGINEERING AB (PRAPPENG AB/H)</b></p> <p>In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.</p> <p><u>Instructional Material:</u> <i>Principles of Applied Engineering, Texas Edition Reid, et al. 2017, Pearson Education</i></p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered only at: Trimble Tech and I.M. Terrell</i></p>	<p><b>STH36202AB</b></p> <p>13036200</p> <p>Grade level: 9</p> <hr/> <p>HS Credit(s): 1</p> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>HONORS PROJECT-BASED RESEARCH IN STEM AB (PROBS1 ST AB/H)</b></p> <p><i>*Previously Problems and Solutions STEM</i></p> <p>Honors Project Based Research is a course student will research a real-world problem. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> TBD</p> <p><i>Offered only at: Dunbar and TCC South Collegiate HS</i></p>	<p><b>STH01500AB</b></p> <p>12701101</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier II</b></p>
<p><b>HONORS UNPAID PRACTICUM IN BUSINESS MANAGEMENT/d AB (PRACBM AB)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study This course is designed to give students supervised practical application of previously studied knowledge and skill. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Business Management.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisites:</u> 2 credits from a combination of Business courses</p> <p><i>Offered at: TCC South Collegiate HS</i></p>	<p><b>BAH12202AB</b></p> <p>13012200</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 2</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>CAREER PREPARATION I AB (CAREERP1 AB)</b></p> <p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>ten hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> None</p>	<p><b>CP01300AB</b></p> <p>12701121</p> <p>Grade level: 11 - 12</p> <p>HS Credit(s): 2</p> <hr/> <p>College Hour(s): NA</p> <p><b>Tier III</b></p>

<p><b>CAREER PREPARATION II AB (CAREERP2 AB)</b></p> <p>The Career Preparation II course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>ten hours per week</u> (or average of 20 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I course.</p>	<p><b>CP01400AB</b></p> <p>12701122 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None</p>	<p>College Hour(s): NA <b>Tier III</b></p>
<p><b>CAREER PREPARATION I/EXTENDED I AB (EXCAREE1 AB)</b></p> <p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I/Extended provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>fifteen hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>CP01302AB</b></p> <p>12701305 Grade level: 11-12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> 2 credits from a combination of Business courses <i>Offered at: TCC South Collegiate HS and Paschal</i></p>	<p>College Hour(s): NA <b>Tier II</b></p>
<p><b>DUAL CREDIT BUSINESS LAW (BUSLAW AB DC)</b> <b>TCC COURSE: BUSINESS LAW (BUS 2301)</b> <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD11701AB</b></p>
<p>This course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.</p>	<p>13011700 Grade level: 11 - 12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: TCC South Collegiate HS (P-Tech) and Diamond Hill Jarvis (P-Tech)</i></p>	<p>College Hour(s): 3 <b>Tier I</b></p>
<p><b>DUAL CREDIT BUSINESS MANAGEMENT AB (BUSMGT AB DC)</b> <b>TCC COURSE: Business Principles (BUSI 1301)</b> <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD12102AB</b></p>
<p>This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making process. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and International business.</p>	<p>13012100 Grade level: 10-12 HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 3 <b>Tier I</b></p>
<p><b>DUAL CREDIT BUSINESS ENGLISH AB (BUSENGL AB DC)</b> <b>TCC COURSE: Communication in Management (BSMGT 1305)</b> <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD11600AB</b></p>
<p>In this course, students will focus on the basic theory and processes of communication skills necessary for the management of an organization's workforce.</p>	<p>13011600 Grade level: 10-12</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered only at: TCC South Collegiate HS (P-Tech)</i></p>	<p>HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b></p>
<p><b>DUAL CREDIT ACCOUNTING IA (ACCOUNT1 A DC)</b> <b>TCC Course: Principles of Financial Accounting: (ACCT 2301)</b> <i>*Course offerings may vary each year due to availability</i></p>	<p><b>FND16612A</b></p>
<p>This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions.</p>	<p>13016600 Grade level: 11 - 12 HS Credit(s): 0.5</p>

<p><u>Instructional Material:</u> TCC Course: Principles of Financial Accounting (ACCT 2301)  <u>TCC Prerequisite(s):</u> TSI compliant in Math  <u>TCC Recommended Co-requisites:</u> MATH 1324  <i>Course taught by an approved adjunct instructor.</i>  <i>Offered only at: Marine Creek and TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ACCOUNTING IB (ACCOUNT1B DC)</b>  <b>TCC Course: Principles of Managerial Accounting: (ACCT 2302)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>FND16612B</b></p>
<p>This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation.</p>	<p>13016700  Grade level: 11 - 12  HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> TCC Course: Principles of Managerial Accounting (ACCT 2302)  <u>TCC Prerequisite(s):</u> ACCT-2301  <i>Course taught by an approved adjunct instructor.</i>  <i>Offered only at: Marine Creek and TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ROBOTICS I AB (ROBOT IAB DC)</b>  <b>TCC Course: Robotics Mechanisms (RBTC 1351)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD37002AB</b></p>
<p>In this course, students learn the application of principles and the calculation of practical problems involving four bar linkages, cams, gears, and gear trains. Topics include vector quantities, angular displacement, motion concepts, velocities, and motions.</p>	<p>13037000  Grade level: 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> MATH 1332  <i>Offered only at: Dunbar (P-Tech) and TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT AC/DC ELECTRONICS AB (ACDCELEC DC AB)</b>  <b>TCC Course: DC-AC Circuits (CETT 1409)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD36802AB</b></p>
<p>In this course, students learn the fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Emphasis on circuit simulation using PSpice. Course includes soldering techniques, hand tools, circuit fabrication techniques, troubleshooting techniques and circuit analysis using Mathcad.</p>	<p>13036800  Grade level: 10-12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> MATH 0362 with a minimum grade of C or appropriate TSI Math placement score.  <i>Offered only at: TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT SOLID STATE ELECTRONICS A (SOSTELEC A DC)</b>  <b>TCC Course: Programmable Logic Controllers (RBTC 1401)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD36902A</b></p>
<p>In this course, students will learn about programmable logic controllers (PLC). Topics include processor units, numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming.</p>	<p>13036900  Grade level: 10-12  HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Offered only at: Dunbar HS (P-Tech) and TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT SOLID STATE ELECTRONICS B (SOSTELEC B DC)</b>  <b>TCC Course: Solid State Circuits (CETT 1441)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>STD36902B</b></p>
<p>In this course, students study various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.</p>	<p>13036900  Grade level: 10-12  HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> CETT 1409 and MATH 0362 with a minimum grade of C or appropriate TSI Math placement score  <i>Offered only at: Dunbar HS (P-Tech) and TCC South Collegiate HS (P-Tech)</i></p>	<p>College Hour(s): 4  <b>Tier I</b></p>

<b>DUAL CREDIT DIGITAL ELECTRONICS AB (DIGELC AB DC)</b> <b>TCC Course: Digital Systems (CETT 1449)</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD37443AB</b>
In this course, students will learn about electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counters, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits.	13037600 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> MATH 0362 with a minimum grade of C or appropriate TSI Math placement score. <i>Offered only at: Dunbar (P-Tech) and TCC South Collegiate HS (P-Tech)</i>	College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT APPLIED MATHEMATICS FOR TECHNICAL PROFESSIONALS AB (APMTHP AB DC)</b> <b>TCC Course: TECHNICAL CALCULATIONS (TECM 1303)</b> <i>*Course offerings may vary each year due to availability</i>	<b>CPD0678AB</b>
In this course, students will learn specific mathematical calculations required by business, industry and the health occupations.	12701410 Grade level: 11 - 12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>FWISD Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> MATH 0362 with a minimum grade of C or appropriate TSI Math placement score. <i>Offered only at: TCC South Collegiate HS (P-Tech)</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT PRINCIPLES OF INFORMATION TECHNOLOGY AB (PRINIT DC AB)</b> <b>TCC Course: INTRODUCTION TO COMPUTING (COSC 1301)</b> <i>*Course offerings may vary each year due to availability</i>	<b>ITD27201AB</b>
In this course, students will learn the overview of computer systems - hardware, operating systems, the internet, and application software including word processing, spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other interdisciplinary settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.	13027200 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>FWISD Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Offered only at: Diamond Hill Jarvis (P-Tech), Eastern Hills (P-Tech), South Hills (P-Tech), and TCC South Collegiate HS (P-Tech)</i>	College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT DISTRIBUTION AND LOGISTICS FOR ENERGY AB (DISTLGSE AB DC)</b> <b>TCC Course: DISTRIBUTIONS OPERATIONS (LMWK 1341)</b> <i>*Course offerings may vary each year due to availability</i>	<b>TPD40300AB</b>
This course will focus on the study of the theoretical and practical operation of electric utility distribution systems. Topics include customer service voltages, capacitors, and coordination of protection equipment.	13040300 Grade level: 11 - 12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Offered only at: TCC South Collegiate HS (P-Tech)</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT CONSTRUCTION TECHNOLOGY I AB/d (CONSTECH AB DC)</b> <b>TCC Course: REGULATION-CONSTRUCTION INDUSTRY (OSHT 1305)</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD00512AB</b>
In this double blocked course, students will study Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry.	13005100 Grade level: 11 - 12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Offered only at: TCC South Collegiate HS (P-Tech)</i>	HS Credit(s): 2 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT ELECTRICAL TECHNOLOGY I AB (ELECTEC AB DC)</b> <b>TCC COURSE: BASIC ELECTRICITY FOR HVAC (HART 1401)</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD05602AB</b>
In this course, students will learn principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation.	13005600 Grade level: 11 - 12

<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> None</p> <p><i>Offered only at: TCC South Collegiate HS (P-Tech)</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT ADVANCED MARKETING (ADVMKTG AB DC)</b></p> <p><b>TCC COURSE: PRINCIPLES OF MARKETING (MRKG 1311)</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>MKD34700AB</b></p>
<p>In this course, students will gain an introduction to the marketing mix functions and processes. The course topics include: identification of consumer and organizational needs and explanation of environmental issues.</p>	<p>13034700</p> <p>Grade level: 11 - 12</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisite(s):</u> Dual Credit Business Management</p> <p><u>TCC Prerequisite(s):</u> BUSI 1301 and BMGT 1305</p> <p><i>Offered only at: TCC South Collegiate HS (P-Tech)</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT HEATING, VENTILATION, AIR CONDITIONG I AB (HVACREF1 AB DC)</b></p> <p><b>TCC COURSE: ADVANCED ELECTRICITY FOR HVAC (HART 2431)</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>MAD05800AB</b></p>
<p>In this course, students will learn theory and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines.</p>	<p>13005800</p> <p>Grade level: 11 – 12</p>
<p><u>Instructional Material:</u> Contact the Office Innovation, Early College Programs Department for related materials.</p> <p><u>Prerequisites:</u> Foundations of Energy and TCC course: HART 1401</p> <p><u>TCC Prerequisites:</u> None.</p> <p><i>Offered only at: TCC South Collegiate HS (P-Tech)</i></p>	<p>HS Credit(s): 1</p> <p>College Hour(s): 4</p> <p><b>Tier I</b></p>

# IT/Networking/Computer Maintenance P-TECH Academy – Business & Industry Endorsement

## FOR THE GRADUATING CLASS OF 2025 and beyond

The IT/Networking/Computer Maintenance P-TECH Academy offers one (1) Career Focus.

<b>Carter-Riverside High School</b>								
<b>IT/Networking/Computer Maintenance P-TECH Academy</b>								
<b>Convergence Cloud Technology Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I	English I	English II	English II	English III	English III	English IV	English IV
	World Geography	World Geography	World History	World History	US History	US History	Dual Credit US Government*	Economics
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or Pre-Calculus	Algebra II or Pre-Calculus	Calculus or Pre-Calculus	Calculus or Pre-Calculus
	Biology	Biology	Chemistry/IPC/Physics	Chemistry/IPC/Physics	3rd Science	3rd Science	4th Science	4th Science
	Dual Credit Fine Arts Dual Credit Speech		Health					
	PE	PE						
	World Language	World Language	World Language	World Language				Dual Credit Foundations of Cyber Security AB (ITD27904AB)
		Dual Credit Principles of Emerging Information Technology AB (ITD27211AB)	Dual Credit Networking for Cloud Systems A (ITD27403A) AND Dual Credit Networking for Cloud Systems B (ITD27403B)	Dual Credit Project-Based Research for IT AB (CPD01501AB)  Dual Credit Networking AB <sup>2</sup> (ITD27402AB)	Dual Credit Internetworking Technologies for Cloud Systems IA (ITD28013A) AND/OR Dual Credit Unpaid Practicum in Emerging Information Technologies A (ITD28000A)	Dual Credit Internetworking for Cloud Systems II A (ITD28023A)	Dual Credit Computer Science I AB <sup>1</sup> (TAD2151AB) AND/OR Dual Credit Independent Study in Emerging Technologies I A (ITD81500A)	Dual Credit Engineering Applications of Computer Science Principles AB (STD03772AB) Dual Credit Unpaid Practicum in Emerging Information Technologies B (ITD28000B) AND/OR Dual Credit Independent Study in Emerging Technologies I B (ITD81500B)
<b>College</b>			<b>ITNW 1408</b>	<b>ITNW 1313</b>	<b>ITSC 1416<sup>^</sup></b>	<b>ITSE 1303<sup>^#</sup></b>	<b>ITNW 1309<sup>#</sup></b>	<b>ITSE 1450<sup>#</sup></b>
	<b>Art 1301</b>		<b>ITNW 1454*</b>	ITNW 1409	<b>ITSE 1479<sup>#</sup></b>		<b>ITNW 1436<sup>#</sup></b>	<b>ITNW 2427<sup>^</sup></b>
	<b>SPCH 1321</b>	<b>CMPT 1403<sup>#</sup></b>		<b>ITNW 1372</b>	MUST TAKE ONE: DC MATH	MUST TAKE ONE: DC MATH	MUST TAKE ONE: DC MATH	MUST TAKE ONE: DC MATH
				<b>ITNW 1425<sup>#</sup></b>	ENGL 1301	ENGL 1302 or 2311	ENGL 1301	ENGL 1302, 2311, or 1301
						GOVT 2305	GOVT 2305	<b>ITSY 1300<sup>^</sup></b>
<b>Hrs.</b>	Up to 6	Up to 7	Up to 7	Up to 7	Up to 13	Up to 10	Up to 16	Up to 14
<p><b>Degree:</b> AAS Convergence Technologies: Cloud Technology<sup>^</sup> - 60+ hours  <b>College Level Certification(s):</b> Advanced Convergence Technologies, Level 1; Convergence Cloud Technology<sup>#</sup>, Level 1 – 19-32 hours; or Convergence Technologies Occupational Skills Award – 10 hours  <b>Industry Certification(s):</b> Comp TIA Network* or Cisco Certifications</p>								
<p>To complete an AA degree, students have the option of completing dual credit core courses. *TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students that are not TSI met will take AP courses in-lieu of dual credit course. Students who complete Principles of Information Technology, Networking, Internetworking Technologies I, and Internetworking Technologies II will have met the requirements for the Networking Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.</p>								

## COURSE DESCRIPTIONS FOR THE IT/NETWORKING/COMPUTER MAINTENANCE P-TECH

<p><b>DUAL CREDIT UNPAID PRACTICUM IN EMERGING INFORMATION TECHNOLOGY A/D (PRACITET1 A DC)</b>  <b>TCC Course: ITSE 1479- Intro to Scripting Languages</b></p> <p>In this course, students will explore scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis.</p> <p><u>Instructional Material:</u> Contact Career and Technical Education for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Cloud Internetworking II B  <u>TCC Prerequisite(s):</u> ITC1440, ITSC 1416, ITSE 1303, and ITSC1316  <u>Offered at:</u> Carter-Riverside HS (P-TECH)</p>	<p><b>ITD28000A</b></p> <p>13028000            Grade level: 12            HS Credit(s): 1            College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF EMERGING INFORMATION TECHNOLOGY A (PRINET DC AB)</b>  <b>TCC Course: (CMPT 1403) Introduction to Computer Technology</b>  <i>*Course offerings may vary each year due to availability</i></p> <p>Students will be introduced to fundamental computer principles that provides explanation of the procedures to utilize hardware and software. Emphasis on terminology, acronyms, and hands-on activities. Lecture hours: 3; Lab hours: 2</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <u>Offered at:</u> Carter-Riverside HS (P-TECH)</p>	<p><b>ITD27211AB</b></p> <p>13027200            Grade level: 9-10            HS Credit(s): 1.0            College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT NETWORKING AB (NTWRK DC AB)</b>  <b>TCC Course: (ITNW 1425) Fundamentals of Networking Technologies</b>  <i>*Course offerings may vary each year due to availability</i></p> <p>Students will receive instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> ITSC 1305  <i>Course taught by a TCC-approved adjunct instructor</i>  <u>Offered at:</u> Carter-Riverside (P-TECH), Eastern Hills (P-TECH) and South Hills (P-TECH)</p>	<p><b>ITD27402AB</b></p> <p>13027400            Grade level: 10 – 12            HS Credit(s): 1            College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT NETWORKING FOR CLOUD SYSTEMS A (NTWRKC DC A)</b>  <b>TCC Course: (ITNW 1408) Implementing and Supporting Client Operating Systems</b>  <i>*Course offerings may vary each year due to availability</i></p> <p>Students will learn the fundamentals of managing and configuring network clients. Skills development in the management of client as desktop operating systems.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Emerging Information Technologies B  <u>TCC Prerequisite(s):</u> ITNW1425  <i>Course taught by a TCC-approved adjunct instructor</i>  <u>Offered at:</u> Carter-Riverside HS (P-TECH)</p>	<p><b>ITD27403A</b></p> <p>13027400            Grade level: 10-11            HS Credit(s): 0.5            College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT NETWORKING FOR CLOUD SYSTEMS B (NTWRKC DC B)</b>  <b>TCC Course: (ITNW 1454) Implementing and Supporting Servers</b>  <i>*Course offerings may vary each year due to availability</i></p> <p>Students will implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Networking for Cloud Systems A  <u>TCC Recommended Prerequisite(s):</u> ITNW 1408  <i>Course taught by a TCC-approved adjunct instructor</i>  <u>Offered at:</u> Carter-Riverside (P-TECH)</p>	<p><b>ITD27403B</b></p> <p>13027400            Grade level: 10-11            HS Credit(s): 0.5            College Hour(s): 4  <b>Tier I</b></p>
<p><b>DUAL CREDIT PROJECT-BASED RESEARCH FOR IT (PROBSIT1 A/D)</b>  <b>TCC Course: (ITNW 1313) Computer Virtualization</b>  <i>*Course offerings may vary each year due to availability</i></p> <p>Students will learn the fundamentals of managing and configuring network clients. Skills development in the management of client as desktop operating systems.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Networking for Cloud Systems B  <u>TCC Prerequisite(s):</u> ITNW1454  <i>Course taught by a TCC-approved adjunct instructor</i></p>	<p><b>CPD01501A</b></p> <p>12701101            Grade level: 10-11            HS Credit(s): 0.5            College Hour(s): 3  <b>Tier I</b></p>



<i>Offered at: Carter-Riverside HS (P-TECH)</i>	
<b>DUAL CREDIT PROJECT-BASED RESEARCH FOR IT (PROBSIT1 B/D)</b>	<b>CPD01501B</b>
<b>TCC Course: (ITNW 1372) VMware, vSphere: Install, Configure, and Manage</b>	
<i>*Course offerings may vary each year due to availability</i>	
Students will explore installation, configuration, and management of VMware, VSphere, ESXI, and VCenter Server.	12701101
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 10-11
<u>FWISD Prerequisite(s):</u> Dual Credit Networking for Cloud Systems B	HS Credit(s): 0.5
<u>TCC Prerequisite(s):</u> ITNW1454 and INTW 1425	College Hour(s): 3
<i>Course taught by a TCC-approved adjunct instructor</i>	<b>Tier I</b>
<i>Offered at: Carter-Riverside HS (P-TECH)</i>	
<b>DUAL CREDIT INTERNETWORKING TECHNOLOGIES FOR CLOUD SYSTEMS I A (INTNETC1 DC A)</b>	<b>ITD28013A</b>
<b>TCC Course: ITSC 1416 Linux Installation and Configuration</b>	
<i>*Course offerings may vary each year due to availability</i>	
Students will be introduced to the Linux operating system. Course topics include Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation.	N1302803
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 10-12
<u>FWISD Prerequisite(s):</u> None	HS Credit(s): 0.5
<u>TCC Prerequisite(s):</u> None	College Hour(s): 4
<i>Course taught by a TCC-approved adjunct instructor</i>	<b>Tier I</b>
<i>Offered at: Carter-Riverside (P-TECH)</i>	
<b>DUAL CREDIT INDEPENDENT STUDY IN EMERGING TECHNOLOGIES I A (TAINDET1 A DC)</b>	<b>ITD81500A</b>
<b>TCC Course: ITNW 1436 Cloud Deployment/Infstr Mgmt</b>	
<i>*Course offerings may vary each year due to availability</i>	
Students will receive instruction in on-Cloud infrastructure, deployment, security models, and key considerations in migrating to Cloud computing. Includes the technologies and processes required to build on-premise and Cloud environments, including computation, storage, networking, virtualization, business continuity, security, and management.	03581500
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11-12
<u>FWISD Prerequisite(s):</u> N/A	HS Credit(s): 0.5
<u>TCC Prerequisite(s):</u> ITSC 1316	College Hour(s): 4
<i>Course taught by a TCC-approved adjunct instructor</i>	<b>Tier I</b>
<i>Offered at: Carter-Riverside (P-TECH)</i>	
<b>DUAL CREDIT INDEPENDENT STUDY IN EMERGING TECHNOLOGIES I B (TAINDETI B DC)</b>	<b>ITD81500B</b>
<b>TCC Course: (ITNW 2427) Advanced Cloud Concepts</b>	
<i>*Course offerings may vary each year due to availability</i>	
Students will receive instruction on enterprise Cloud architecture, with advanced topics including multi-Cloud platforms inclusive of computing, networking, storage, monitoring and database.	03581500
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11-12
<u>FWISD Prerequisite(s):</u> Dual Credit Independent Studies in Emerging Technologies 1A	HS Credit(s): 0.5
<u>TCC Prerequisite(s):</u> N/A	College Hour(s): 4
<i>Course taught by a TCC-approved adjunct instructor</i>	<b>Tier I</b>
<i>Offered at: Carter-Riverside (P-TECH)</i>	
<b>DUAL CREDIT INTERNETWORKING TECHNOLOGIES FOR CLOUD SYSTEMS II AB (INTNETC2 DC A)</b>	<b>ITD28023AB</b>
<b>TCC Course: (ITSE 1303) Introduction to MySQL</b>	
<i>*Course offerings may vary each year due to availability</i>	
Students will receive instruction on the fundamentals of SQL and relational databases.	N1302804
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11-12
<u>FWISD Prerequisite(s):</u> None	HS Credit(s): 0.5
<u>TCC Prerequisite(s):</u> ITCC 1440	College Hour(s): 3
<i>Course taught by a TCC-approved adjunct instructor</i>	<b>Tier I</b>
<i>Offered at: Carter-Riverside (P-TECH)</i>	
<b>DUAL CREDIT COMPUTER SCIENCE I AB (TACS 1 DC AB)</b>	<b>TAD2151AB</b>
<b>TCC Course: (ITNW 1309) Fundamentals of Cloud Computing</b>	
<i>*Course offerings may vary each year due to availability</i>	
Students will be introduced to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.	03580200
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11-12
<u>FWISD Prerequisite(s):</u> None	HS Credit(s): 1
<u>TCC Prerequisite(s):</u> None	College Hour(s): 3
<i>Course taught by a TCC-approved adjunct instructor</i>	<b>Tier I</b>

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Offered at: Carter-Riverside HS (P-TECH)

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**DUAL CREDIT FOUNDATIONS OF CYBERSECURITY AB (FODCYBER DC AB)**

**ITD27904AB**

**TCC Course: (ITSY 1300) Fundamentals of Information Security**

*\*Course offerings may vary each year due to availability*

Students will be introduced to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed.

03580850

Grade level: 10-12

HS Credit(s): 1

Instructional Material: Contact the Office of Innovation, Early College Programs Department for related materials.

College Hour(s): 3

FWISD Prerequisite(s): None

**Tier I**

TCC Prerequisite(s): None

*Course taught by a TCC-approved adjunct instructor*

*Offered at: Carter-Riverside HS (P-TECH)*

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**DUAL CREDIT ENGINEERING APPLICATIONS FOR COMPUTER SCIENCE PRINCIPLES (EACSP AB DC)**

**STD03772AB**

**TCC Course: (ITSE 1450) System Analysis and Design**

*\*Course offerings may vary each year due to availability*

This is a design-based high school course for students who want to expand and deepen their engineering design skills and habits of mind through the purposeful integration and application of computer science (CS) principles and practices. Additionally, students will be introduced to the planning, design, and construction of computer information systems using the systems development life cycle and other appropriate design tools.

N1303772

Grade level: 11 - 12

HS Credit(s): 1

Instructional Material: Contact the Office of Innovation, Early College Programs Department for related materials.

College Hour(s): 4

FWISD Prerequisite(s): Dual Credit Computer Science III

**Tier I**

TCC Prerequisite: N/A

*Course taught by a TCC-approved adjunct instructor*

*Offered only at: Carter-Riverside HS (P-TECH)*

# Architecture/Construction Logistics P-TECH Academy – Business & Industry Endorsement

## FOR THE GRADUATING CLASS OF 2025 and beyond

The Architecture/Construction & Logistics P-TECH Academy offers three (3) Career Focuses.

### Diamond Hill-Jarvis High School Architecture/Construction Logistics P-TECH Academy Architecture Crosswalk

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	*English III or IV	*English IV	*English IV
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or *Pre-Calculus	Algebra II or *Pre-Calculus	*Pre-Calculus, *Calculus or *Statistics	*Pre-Calculus, *Calculus or *Statistics if needed
	World Geography	World Geography	*AP World History	*AP World History	*AP US History	*AP US History	*Econ. or Dual Credit Govt.	
	Biology	Biology	Chemistry	Chemistry	Physics	Physics	4th Year Science	4th Year Science
	Health	Dual Credit Speech *	Dual Credit Fine Arts *			*Econ. or Dual Credit Govt.		
	World Language	World Language	World Language	World Language	Possible Elective	Possible Elective		
	PE	PE						
	Dual Credit Principles of Architecture A <sup>1</sup> (ARD04200 A)	Dual Credit Principles of Architecture B <sup>1</sup> (ARD04200 B)	Dual Credit Architectural Design I A <sup>1</sup> (ARD04602A)	Dual Credit Architectural Design II/d A <sup>1</sup> (ARD04702A)	Dual Credit Computer Aided Drafting for Architecture A <sup>1</sup> (ARD00429A)	Dual Credit Construction Management for Architecture I/d A <sup>1</sup> (ARD04903A)	Dual Credit Unpaid Practicum in Architectural Design/d I A <sup>1</sup> (ARD04802A)	Dual Credit Unpaid Practicum in Architectural Design/d II A <sup>1</sup> (ARD04810AB)
		Dual Credit Professional Communication T <sup>2</sup> (AVD09901 T)	Dual Credit Architectural Design IB <sup>2</sup> (ARD04602B)	Dual Credit Principles of Construction for Architecture A <sup>2</sup> (ARD04202A)	Dual Credit Computer Aided Drafting for Architecture B <sup>2</sup> (ARD00429B)	Dual Credit Construction Management for Architecture I/d B <sup>2</sup> (ARD04903B)	Dual Credit Unpaid Practicum in Architectural Design/d I B <sup>2</sup> (ARD04802B)	
				Dual Credit Principles of Construction for Architecture B <sup>3</sup> (ARD04202B)	Dual Credit Architectural Design II/d B <sup>3</sup> (ARD04702B)			
<b>College</b>	<b>ARCH 1315</b> <sup>1</sup>	<b>ARCH 1311</b> <sup>1</sup>	ARTS 1301**	<b>ARCH 1304</b> <sup>1</sup>	<b>ARCH 1307</b> <sup>1</sup>	<b>ARCH 2301</b> <sup>1</sup>	ENG 1301**	ENGL 1302
		<b>SPCH 1321</b> <sup>2**</sup>	<b>ARCH 2312</b> <sup>1</sup>	<b>ARCE 1342</b> <sup>2</sup>	<b>ARCH 1308</b> <sup>2</sup>	<b>SRVY 1301</b> <sup>2</sup>	MATH 1314**	MATH 2412
			<b>ARCH 1303</b> <sup>2</sup>	<b>ARCE 2352</b> <sup>3</sup>	<b>ARCH 1301</b> <sup>3</sup>	GOVT 2305	<b>ARCH 1302</b> <sup>1</sup>	<b>ARCT 2367</b> <sup>1***</sup>
<b>Hrs.</b>	Up to 3	Up to 6	Up to 9	Up to 9	Up to 9	Up to 9	Up to 12	Up to 10
<b>Degree:</b> AAS Architectural Technology - 60 hours <b>College Level Certification(s):</b> Architectural CAD Operator, Level 1; Architectural Paraprofessional, Level 1 – 18-30 hours; or Architectural Technology Occupational Skills Award – 10 hours. <b>Industry Certification(s):</b> Autodesk Certified User in AutoCAD								

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students that are not TSI met will take AP courses in-lieu of dual credit course. The COLLEGE DISTRICT and SCHOOL DISTRICT will utilize the crosswalk to collaborate strategic course offerings for students participating in the dual credit program towards college degree completion through the term of the agreement. Career and Technical Education (CTE) program requirements will be provided for CTE course offerings. \*\*Required for AAS \*\*\* 16 weeks with industry partner  
 Students who complete Principles of Architecture, Architectural Design I, Architectural Design II, and Practicum in Architectural Design will have met requirements for the Architectural Design Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.

**Diamond Hill-Jarvis High School**  
**Architecture/Construction Logistics P-TECH Academy**  
**Construction Management Crosswalk**

Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	*English III or IV	*English IV	*English IV
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or *Pre-Calculus	Algebra II or *Pre-Calculus	*Pre-Calculus or *Calculus or *Statistics	* Pre-Calculus or *Calculus or *Statistics if needed
	World Geography	World Geography	*AP World History	*AP World History	*AP US History	*AP US History	Government or *Economics DC if needed	
	Biology	Biology	Chemistry	Chemistry	Physics	Physics	4th Year Science	4th Year Science
	Health	Dual Credit Speech *	Dual Credit Fine Arts *			*HS Government or DC Economics		
	World Language PE	World Language PE	World Language	World Language				
	Dual Credit Principles of Construction Management A <sup>1</sup> (ARD04203A)	Dual Credit Professional Communication T <sup>1</sup> (AVD09901T) AND Dual Credit Principles of Construction Management B <sup>2</sup> (ARD04203B)	Dual Credit Construction Technology for Management I/d A <sup>1</sup> (ARD00513A) AND Dual Credit Construction Technology for Management I/d B <sup>2</sup> (ARD00513B)	Dual Credit Computer Aided Drafting for Construction Management AB <sup>1</sup> (ARD00439AB) AND Dual Credit Construction Technology II/d AB <sup>2</sup> (ARD05202AB)	Dual Credit Construction Management for Construction I/d A <sup>1</sup> (ARD04904A) AND Dual Credit Construction Management for Construction I/d B <sup>2</sup> (ARD04904B) AND Dual Credit Business Management for Construction A <sup>3</sup> (BAD12103A)	Dual Credit Business Management for Construction B <sup>1</sup> (BAD12103B) AND Dual Credit Principles of Information Technology AB <sup>2</sup> (ITD27201AB)	Dual Credit Unpaid Practicum in Construction Management I/d A <sup>1</sup> (ARD06202A)	Dual Credit Unpaid Practicum in Construction Management I/d B <sup>1</sup> (ARD06202B)
<b>College</b>	<b>CNBT 1110<sup>1</sup></b>	<b>SPCH 1321<sup>1**</sup></b>	ARTS 1301**	<b>ARCH 1315<sup>1</sup></b>	<b>SRVY 1301<sup>1</sup></b>	CNBT 1327	ENG 1301	ENGL 1302 4 <sup>th</sup> year 2 <sup>nd</sup> semester HS
		<b>CNBT 1300<sup>2</sup></b>	<b>CNBT 1302<sup>1</sup></b>	<b>CNBT 1342<sup>2</sup></b>	<b>CNBT 1346<sup>2</sup></b>	<b>BMGT 1327<sup>1</sup></b>	MATH 1314	MATH 2412 Needed for .5 High School Credit
			<b>CNBT 1311<sup>2</sup></b>	<b>CNBT 1316<sup>2</sup></b>	GEOL 1305**	ECON 2301**	<b>CNBT 2337<sup>1</sup></b>	<b>CNBT 2266<sup>1</sup></b> Requires 16 hours a week with Industry Partner
					<b>CNBT 2342<sup>3</sup></b>	<b>COSC 1301<sup>2</sup></b>	CNBT 2335 <sup>1</sup>	
<b>Hrs.</b>	Up to 3	Up to 6	Up to 9	Up to 9	Up to 12	Up to 12	Up to 12	Up to 10

**Degree:** AAS Construction Management Technology - 60 hours  
**College Level Certification(s):** Construction Inspection Technician, Level 1; Construction Management Technology, Level 1 – 19-25 hours  
**Industry Certification(s):** NCCER Core Curriculum, NCCER Construction Technology.

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students that are not TSI met will take AP courses in-lieu of dual credit course. The COLLEGE DISTRICT and SCHOOL DISTRICT will utilize the crosswalk to collaborate strategic course offerings for students participating in the dual credit program towards college degree completion through the term of the agreement. Career and Technical Education (CTE) program requirements will be provided for CTE course offerings. \*\*Required for AAS

Students who complete Principles of Construction Management, Construction Management I, and Practicum in Construction Management will have met requirements for the Construction Management and Inspection Program of Study for a Business and Industry endorsement.

**Diamond Hill-Jarvis High School**  
**Architecture/Construction Logistics P-TECH Academy**  
**Logistics and Supply Chain Management Crosswalk**

	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV	*English III or IV	*English IV	*English IV
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or *Pre-Calculus	Algebra II or *Pre-Calculus	*Pre-Calculus or *Calculus or *Statistics	*Pre-Calculus or *Calculus or *Statistics if needed
	World Geography	World Geography	*AP World History	*AP World History	*AP US History	*AP US History	*DC Economics or HS Government	
	Biology	Biology	Chemistry	Chemistry	Physics	Physics	4th Year Science	4th Year Science
	Health	Dual Credit Speech *	Dual Credit Fine Arts *			*DC Economics or HS Government		
	World Language	World Language	World Language	World Language				
	PE	PE						
	Dual Credit Business Information Management I AB <sup>1</sup> (BAD11412AB)	Dual Credit Professional Communication T <sup>1</sup> (AVD09901T)	Dual Credit Management of Transportation Systems AB <sup>1</sup> (TPD40200AB)	Dual Credit Distribution and Logistics B <sup>1</sup> (TPD40301B)	Dual Credit Business Management for Logistics AB <sup>12</sup> (BAD12104AB)	Dual Credit Advanced Marketing AB <sup>1</sup> (MKD34700AB)	Dual Credit Unpaid Practicum in Distribution and Logistics A <sup>1</sup> (TPD40470A)	Dual Credit Unpaid Practicum in Distribution and Logistics B <sup>1</sup> (TPD40470B)
	Dual Credit Distribution and Logistics A <sup>2</sup> (TPD40301A)		Dual Credit Concepts of Distribution and Logistics Technology AB <sup>2</sup> (TPD03800AB)	Dual Credit Business Law AB <sup>3</sup> (BAD11701AB)	Dual Credit Accounting IA <sup>2</sup> (FND16612AB)			
<b>College</b>	<b>BCIS 1305<sup>1</sup></b>	<b>SPCH 1321<sup>1</sup></b> Required for AAS	ARTS 1301 Required for AAS	<b>LMGT 1325<sup>1</sup></b>	<b>BMGT 1301<sup>1</sup></b>	<b>MRKG 1311<sup>1</sup></b>	ENG 1301 Need 3 Hours for AAS	ENGL 1302 Not Required needed for 4 <sup>th</sup> year second semester HS
		<b>LMGT 1319<sup>2</sup></b>	<b>LMGT 1323<sup>1</sup></b>	<b>IBUS 1301<sup>2</sup></b>	<b>BMGT 1313<sup>2</sup></b>	<b>ACCT 2301<sup>2</sup></b>	MATH 1314 Need 3 Hours for AAS CAN USE STATS! College Algebra	MATH 2412 Need .5 Credit for High School so not needed unless they take MATH 1314
			<b>LMGT 2334<sup>1</sup></b>	<b>IBUS 1302<sup>2</sup></b>	<b>BUSI 2301<sup>3</sup></b>	ECON 2301 Required for AAS	<b>BMGT 1331<sup>1</sup></b>	<b>LMGT 2388<sup>1</sup></b> Requires 16 hours a week with Industry Partner
							BMGT 2331 <sup>1</sup>	
<b>Hrs.</b>	Up to 3	Up to 6	Up to 9	Up to 9	Up to 9	Up to 9	Up to 12	Up to 10

**Degree:** AAS Logistics and Supply Chain Management - 60 hours  
**College Level Certification(s):** Transportation Management, Level 1, or Warehouse Management, Level 1  
**Industry Certification(s):** MSSC Certified Logistics Technician

\*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students that are not TSI met will take AP courses in-lieu of dual credit course. The COLLEGE DISTRICT and SCHOOL DISTRICT will utilize the crosswalk to collaborate strategic course offerings for students participating in the dual credit program towards college degree completion through the term of the agreement. Career and Technical Education (CTE) program requirements will be provided for CTE course offerings. Students who complete Distribution and Logistics, Management of Transportation Systems, Concepts of Distribution and Logistics, and Practicum in Distribution and Logistics will have met requirements for the Distribution and Logistics Program of Study for a Business and Industry endorsement.

## COURSE DESCRIPTIONS FOR ARCHITECTURE/CONSTRUCTION & LOGISTICS P-TECH

<p><b>DUAL CREDIT PRINCIPLES OF ARCHITECTURE A (PRINARC DC A)</b>  <b>TCC (ARCH 1315) Architectural Computer Graphics</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04200A</b></p>
<p>Students learn the effective use of representational media, computer aided design, and digital media to engage formal, organizational, and environmental principles. Emphasis on the appropriate media to inform two-dimensional and three-dimensional design based upon the conventions of architectural graphic communication. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills and A.4 Architecture Design Skills</p>	<p>13004210            Grade level: 9 – 10            HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF ARCHITECTURE B (PRINARC DC B)</b>  <b>TCC (ARCH 1311) Introduction to Architecture</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04200B</b></p>
<p>Students are introduced to architecture that explores the practices, principles, and wider context of architecture and design. Focuses on the role of architecture in society, culture, and the broader physical context of the built environment. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.8 Cultural Diversity and Social Equity and D.1 Stakeholder Roles in Architecture</p>	<p>13004210            Grade level: 9 – 10            HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Architecture A  <u>TCC Prerequisite(s):</u> ARCH 1315  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ARCHITECTURAL DESIGN I A (ARCHDSN 1 DC A)</b>  <b>TCC (ARCH 2312) Architectural Technology</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04602A</b></p>
<p>Students are introduced to materials and methods in the design and construction of buildings. Course will include a survey of buildings that conserve energy, water, and human resources; sustainable design and construction. The course will illustrate the connection of the previously mentioned topics, when applicable, to the digital age and the Internet of Things (IoT) which are reshaping our built environment. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: B.7 Building Envelope Systems and Assemblies and B.8 Building Materials and Assemblies.</p>	<p>13004600            Grade level: 10 – 12            HS Credit: 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Architecture B, Algebra I, and English I  <u>TCC Prerequisite(s):</u> ARCH 1311  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ARCHITECTURAL DESIGN I B (ARCHDSN 1 DC B)</b>  <b>TCC (ARCH 1303) Architectural Design I - Residential</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04602B</b></p>
<p>Students will receive an introductory studio providing foundation in the conceptual, perceptual, and manual skills necessary for two-dimensional and three-dimensional design. Architectural drawing procedures and practices for residential and/or light frame construction. Construction practices and techniques with emphasis on residential construction methods. Office procedures for coordinating CAD drawings in the office. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills, A.2 Design Thinking Skills, A.4 Architectural Design Skills, and A.5 Ordering Systems.</p>	<p>13004600            Grade level: 10 – 12            HS Credit: 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Architectural Design IA, Algebra I, and English  <u>TCC Prerequisite(s):</u> ARCH 2312  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ARCHITECTURAL DESIGN II/d A (ARCHDSN 2 DC A)</b>  <b>TCC (ARCH 1304) Architectural Design II - Commercial</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04702A</b></p>
<p>Students will engage in creative problem solving and presentation of principles, concepts and ideas as applied to introductory architectural projects. Architectural drafting procedures, practices and symbols including the preparation of detailed working drawings for commercial building, with emphasis on commercial construction methods. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills, A.2 Design Thinking Skills, A.4 Architectural Design Skills, and A.5 Ordering Systems</p>	<p>13004700            Grade level: 10 - 12            HS Credit(s): 1</p>

<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> ARCH 1303 and ARCH 1315</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT ARCHITECTURAL DESIGN II/d B (ARCHDSN 2 DC B)</b></p> <p><b>TCC (ARCH 1301) Architectural History I</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04702B</b></p>
<p>Students will begin with part one of a survey of the history of world architecture from pre-history to the present. This course focuses on the period from pre-history up to at least the 14th Century. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.7 History and Global Culture</p>	<p>13004700</p> <p>Grade level: 10 - 12</p> <p>HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> None</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF CONSTRUCTION FOR ARCHITECTURE A (PRINCONA A DC)</b></p> <p><b>TCC (ARCE 1342) Codes, Specifications, and Contract</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04202A</b></p>
<p>Students will study ordinances, codes, and legal documents as they relate to specifications and drawing. Discussion of owner-architect-contractor responsibilities, duties, and legal relationships. Preparation of drawing for mechanical, electrical, and plumbing (MEP) systems with emphasis on applicable building and energy codes, product references, and specifications for construction.</p>	<p>13004220</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> ARCH 2312</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF CONSTRUCTION FOR ARCHITECTURE B (PRINCONA B DC)</b></p> <p><b>(ARCE 2352) Mechanical, Electrical, and Plumbing (MEP) Systems</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04202B</b></p>
<p>Students will study ordinances, codes, and legal documents as they relate to specifications and drawing. Discussion of owner-architect-contractor responsibilities, duties, and legal relationships. Preparation of drawing for mechanical, electrical, and plumbing (MEP) systems with emphasis on applicable building and energy codes, product references, and specifications for construction. Course will include a survey of buildings that conserve energy, water, and human resources; sustainable design and construction. The course will illustrate the connection of the previously mentioned topics, when applicable, to the digital age and the Internet of Things (IoT) which are reshaping our built environment.</p>	<p>13004220</p> <p>Grade level: 10-12</p> <p>HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> ARCE 1342</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF CONSTRUCTION MANAGEMENT A (PRINCONM A DC)</b></p> <p><b>(CNBT 1110) Basic Construction Safety</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04203A</b></p>
<p>Students will learn about basic job site construction safety in residential, commercial, and industrial construction.</p>	<p>13004220</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> None</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>Grade level: 9</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): 1.0</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT PRINCIPLES OF CONSTRUCTION MANAGEMENT I B (PRINCONM B DC)</b></p> <p><b>(CNBT 1300) Residential and Light Commercial Blueprint Reading</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD04203B</b></p>
<p>Students will receive an introduction to construction drawings with a focus on residential and light commercial construction.</p>	<p>13004220</p> <p>Grade level: 9-10</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> None</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>HS Credit(s): 0.5</p> <p>College Hour(s): 3.0</p> <p><b>Tier I</b></p>
<p><b>DUAL CREDIT PROFESSIONAL COMMUNICATIONS (PROFCOMM T)</b></p> <p><b>(SPCH 1321) Business and Professional Communication</b></p> <p><i>*Course offerings may vary each year due to availability</i></p>	<p><b>AVD09902T</b></p>
<p>Students will study application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams, and technologically mediated formats.</p>	<p>13009900</p> <p>Grade level: 9</p> <p>HS Credit(s): 0.5</p>

<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI Reading and Math  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>College Hour(s): 3.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT CONSTRUCTION TECHNOLOGY II I/d A (CONSTECH2 A DC)</b>  <b>(CNBT 1316) Construction Technology I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD05202 A</b></p>
<p>Students will learn about site preparation, form work, safety, tools, and equipment.  form work, safety, tools, and equipment.</p>	<p>13005200  Grade level: 10-12</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Construction Management B  <u>TCC Prerequisite(s):</u> CNBT 1300  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>HS Credit(s): 1.0  College Hour(s): 3.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT CONSTRUCTION TECHNOLOGY II I/d B (CONSTECH2 B DC)</b>  <b>(CNBT 1342) Building Codes and Inspections</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD05202 B</b></p>
<p>Students will understand building codes and standards applicable to building construction and inspection processes. Study of ordinances, codes, and legal documents as they relate to specifications, drawings, and building construction. An overview of legal contracts in the construction industry.</p>	<p>13005200  Grade level: 10-12</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Construction Technology II A  <u>TCC Prerequisite(s):</u> CNBT 1300  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>HS Credit(s): 2.0  College Hour(s): 6.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT CONSTRUCTION TECHNOLOGY FOR MANAGEMENT I/d A (CONSTECHM DC A)</b>  <b>(CNBT 1302) Mechanical, Electrical and Plumbing Systems in Construction I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD00513A</b></p>
<p>Students will learn about the basic mechanical, electrical, and plumbing components in construction and their relationship to the residential and light commercial buildings.</p>	<p>13005100  Grade level: 10</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Construction Management B  <u>TCC Prerequisite(s):</u> CNBT 1300  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>HS Credit(s): 1.0  College Hour(s): 3.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT CONSTRUCTION TECHNOLOGY FOR MANAGEMENT I/d B (CONSTECHM DC B)</b>  <b>(CNBT 1311) Construction Methods and Material I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD00513B</b></p>
<p>Students will receive an introduction to construction materials and methods and their applications.</p>	<p>13005100  Grade level: 10</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Principles of Construction Management B  <u>TCC Prerequisite(s):</u> CNBT 1300  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>HS Credit(s): 1.0  College Hour(s): 3.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT COMPUTER AIDED DRAFTING FOR ARCHITECTURE I/d A (CADAR A DC)</b>  <b>TCC (ARCH 1307) Architectural Graphics I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD00429A</b></p>
<p>Students are introduced to basic drawing methods and tools. Exploration of techniques available for the design process with emphasis on two-dimensional and three-dimensional composition. Presentation of advance architectural topics with application in computer-aided environment utilizing three-dimensional objects or spaces.</p>	<p>N1300429  Grade level: 11-12  HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> ARCE 2352  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT COMPUTER AIDED DRAFTING FOR ARCHITECTURE I/d B (CADAR B DC)</b>  <b>TCC (ARCH 1308) Architectural Graphics II</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>ARD00429B</b></p>
<p>This is a continuation of the study, methodology, and production of architectural drawings. Exploration of techniques available for the design process with emphasis on three-dimensional composition both analog and digital. These techniques will be implemented through the use and instruction of Building Information Management System software. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills and A.5 Ordering Systems</p>	<p>N1300429  Grade level: 11-12  HS Credit(s): 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> ARCH 1307  <u>Offered at:</u> Diamond Hill-Jarvis (P-TECH)</p>	<p>College Hour(s): 3  <b>Tier I</b></p>



<b>DUAL CREDIT COMPUTER AIDED DRAFTING FOR CONSTRUCTION MANAGEMENT I/d A (CADARC AB DC)</b> <b>TCC (ARCH 1315) Architectural Computer Graphics</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD00439A</b>
<p>In this course, students will learn the effective use of representational media, computer aided design, and digital media to engage formal, organizational, and environmental principles. Emphasis on the appropriate media to inform two-dimensional and three-dimensional design based upon the conventions of architectural graphic communication. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills and A.4 Architecture Design Skills.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> None</p> <p><u>TCC Prerequisite(s):</u> ARCH 1307</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>N1300429</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 0.5</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT CONSTRUCTION MANAGEMENT FOR ARCHITECTURE I/d A (CONSMGTAR1 DC A)</b> <b>TCC (ARCH 2301) Architectural Freehand Drawing I</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD04903A</b>
<p>Students will develop freehand drawing skills in architecture. Methods and skills, including emphasis on principles of light, shade, scale, proportion, line, and tonal quality for exploring and developing conceptual ideas and for clear graphic presentations.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> Dual Credit Architectural Design II/d B</p> <p><u>TCC Prerequisite(s):</u> ARCH 1301 and ARCH 1308</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>13004900</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT CONSTRUCTION MANAGEMENT FOR ARCHITECTURE I/d B (CONSMGTAR1 DC B)</b> <b>TCC (SRVY 1301) Introduction to Surveying</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD04903B</b>
<p>Students will receive an overview of the surveying profession. The history of surveying and its impact on the world. Review of the mathematics used in surveying. Introduction to basic surveying equipment with emphasis on measurements. Instruction on surveying procedures and the limitation of errors. Calculation to determine precision and error of closure. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills and A.4 Architectural Design Skills.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> Dual Credit Construction Management for Architecture I/D A</p> <p><u>TCC Prerequisite(s):</u> ARCH 2301</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>13004900</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT CONSTRUCTION MANAGEMENT FOR CONSTRUCTION I/d A (CONSMGT CN 1 DC A)</b> <b>TCC (SRVY 1301) Introduction to Surveying</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD04904A</b>
<p>Students will obtain an overview of the surveying profession, such as basic surveying equipment with emphasis on measurements, surveying procedures and the limitation of errors, and calculations to determine precision and error of closure.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> Dual Credit Construction Technology II/d B</p> <p><u>TCC Prerequisite(s):</u> CNBT 1344</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>13004900</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>
<b>DUAL CREDIT CONSTRUCTION MANAGEMENT FOR CONSTRUCTION I/d B (CONSMGT CN 1 DC B)</b> <b>TCC (CNBT 1346) Construction Estimating I</b> <i>*Course offerings may vary each year due to availability</i>	<b>ARD04904B</b>
<p>Students will explore fundamentals of estimating materials, equipment, and labor costs in construction.</p> <p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials</p> <p><u>FWISD Prerequisite(s):</u> Dual Credit Construction Management for Construction II/d B</p> <p><u>TCC Prerequisite(s):</u> SRVY 1301</p> <p><i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	<p>13004900</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 1</p> <p>College Hour(s): 3</p> <p><b>Tier I</b></p>

<p><b>DUAL CREDIT BUSINESS MANAGEMENT FOR CONSTRUCTION I/d A (BUSMGTC DC A)</b>  <b>TCC (CNBT 2342) Construction Management I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>BAD12103A</b>
<p>Students will explore the construction industry and management skills on the job site. Topics include written and oral communications, leadership and motivation, problem solving, and decision making. The course also deals with the concepts and principles in estimating, planning, scheduling, controlling and construction ethics.</p>	13012100 Grade level: 11-12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Construction Management for Construction II/d B  <u>TCC Prerequisite(s):</u> SRVY 1301  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT BUSINESS MANAGEMENT FOR CONSTRUCTION I/d B (BUSMGTC DC B)</b>  <b>TCC (BMGT 1327) Principles of Management</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>BAD12103B</b>
<p>Students will explore the construction industry and management skills on the job site. Topics include written and oral communications, leadership and motivation, problem solving, and decision making. The course also deals with the concepts and principles in estimating, planning, scheduling, controlling and construction ethics.</p>	13012100 Grade level: 11-12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>FWISD Prerequisite(s):</u> Dual Credit Business Management for Construction I/d A  <u>TCC Prerequisite(s):</u> CNBT 2342  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT UNPAID PRACTICUM IN ARCHITECTURAL DESIGN/d I A (PRACADSN A DC)</b>  <b>TCC (ARCH 1302) Architectural History II</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ARD04802A</b>
<p>Students engage in part two of a survey of the history of world architecture from pre-history to the present. This course focuses on the period of neo-classicism up to the modern era. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.7 History and Global Culture.</p>	13004800 Grade level: 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Architectural Design II  <u>TCC Prerequisite(s):</u> ARCH 2301  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT UNPAID PRACTICUM IN ARCHITECTURAL DESIGN/d I B (PRACADSN B DC)</b>  <b>TCC (ARCH 2302) Architecture Freehand Drawing II</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ARD04802B</b>
<p>This course develops advanced freehand design drawing skills in architecture. Emphasis is on using freehand techniques in visual thinking and analysis. Development of conceptual ideas for clear graphic presentations. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.1 Professional Communication Skills and A.4 Architecture Design Skills</p>	13004800 Grade level: 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> ARCH 2301  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT UNPAID PRACTICUM IN ARCHITECTURAL DESIGN/d II A (PRACADSN2 AB DC)</b>  <b>TCC (ARCT 2367) Practicum in Architectural Engineering Technology/Technician (Capstone)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ARD04810A</b>
<p>Students will engage in practical, general workplace training supported by an individualized learning plan developed by the employer, College and student. This experience may be paid or non-paid.</p>	13004810 Grade level: 12
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Unpaid Practicum in Architectural Design/d AB (first time taken)  <u>TCC Prerequisite(s):</u> Consent of TCC Department Chairperson  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Diamond Hill-Jarvis (P-TECH)</i></p>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT PRINCIPLES OF INFORMATION TECHNOLOGY AB (PRINIT DC AB)</b>  <b>TCC Course: (COSC 1301) Introduction to Computing +</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ITD27201AB</b>
<p>Students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. Additionally, students will learn an overview of computer systems-hardware, operating systems, the Internet, and application software including word processing,</p>	13027200 Grade level: 9 - 11 HS Credit(s): 1

spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other interdisciplinary settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.

**Instructional Material:** Contact the Office of Innovation, Early College Programs Department for related materials. College Hour(s): 3  
**FWISD Prerequisite(s):** None Tier I  
**Corequisites:** None  
**TCC Prerequisite(s):** None  
*Course taught by a TCC-approved adjunct instructor*  
*Offered only at: Diamond-Hills Jarvis HS (P-TECH), Eastern Hills (P-TECH), South Hills (P-TECH), and TCC South Collegiate HS (P-TECH)*

**DUAL CREDIT UNPAID PRACTICUM IN CONSTRUCTION MANAGEMENT I/d A (PRACCONS A DC) ARD06202A**

**TCC Course: (CNBT 2337) Construction Estimating II**

*\*Course offerings may vary each year due to availability*

Students will explore advanced estimating concepts using computer software for construction and crafts and learn how advanced construction scheduling utilizing computer scheduling software to perform various scheduling procedures. 13006200  
 Grade level: 11 - 12  
 HS Credit(s): 1

**Instructional Material:** Contact the Office of Innovation, Early College Programs Department for related materials. College Hour(s): 3  
**FWISD Prerequisite(s):** Dual Credit Principles of Information Technology AB Tier I  
**Corequisites:** None  
**TCC Prerequisite(s):** CNBT 1346  
*Course taught by a TCC-approved adjunct instructor*  
*Offered only at: Diamond-Hills Jarvis HS (P-TECH)*

**DUAL CREDIT UNPAID PRACTICUM IN CONSTRUCTION MANAGEMENT I/d B (PRACCONS B DC) ARD06202B**

**TCC Course: (CNBT 2266) Practicum in Construction/Engineering Technician**

*\*Course offerings may vary each year due to availability*

Students will apply practical, general workplace training supported by an individualized learning plan developed by the employer, College, and student. This is a capstone course. 13006200  
 Grade level: 11 - 12

**Instructional Material:** Contact the Office of Innovation, Early College Programs Department for related materials. HS Credit(s): 1  
**FWISD Prerequisite(s):** Dual Practicum in Construction Management I/d A College Hour(s): 3  
**Corequisites:** None Tier I  
**TCC Prerequisite(s):** CNBT 2337 and CNBT 2335  
*Course taught by a TCC-approved adjunct instructor*  
*Offered only at: Diamond-Hills Jarvis HS (P-TECH)*

**DUAL CREDIT BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB DC) BAD11412AB**

**TCC COURSE: (BCIS 1305) Business Computer Applications**

*\*Courses may change due to availability*

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets databases, presentation graphics, and business-oriented utilization of the Internet. 13011400  
 Grade level: 9 - 12  
 HS Credit(s): 1

**Instructional Material:** TCC Course: Business Computer Applications (BCIS 1305) College Hour(s): 3  
**FWISD Prerequisite(s):** None Tier I  
**TCC Prerequisite(s):** TSI  
*Offered only at: Diamond-Hills Jarvis HS (P-TECH)*

**DUAL CREDIT DISTRIBUTION AND LOGISTICS A (DISTLGS A DC) TPD40301A**

**TCC COURSE: (LMGT 1319) Introduction to Business Logistics**

*\*Courses may change due to availability*

Emphasis on physical distribution and total supply chain management. Includes warehouse operations management, hardware and software operations, bar codes, organizational effectiveness, just-in-time manufacturing and continuous replenishment, and third party. 13040300  
 Grade level: 9 - 12  
 HS Credit(s): 0.5

**Instructional Material:** Contact the Office of Innovation, Early College Programs Department for related materials. College Hour(s): 3  
**FWISD Prerequisite(s):** None Tier I  
**TCC Prerequisite(s):** TSI  
*Offered only at: Diamond-Hills Jarvis HS (P-TECH)*

**DUAL CREDIT DISTRIBUTION AND LOGISTICS B (DISTLGS B DC) TPD40301B**

**TCC COURSE: (LMGT 1325) Warehouse and Distribution System Management**

*\*Courses may change due to availability*

This course will focus on physical distribution and total supply chain management. Includes warehouse operations management, hardware and software operations, bar codes, organizational effectiveness, just-in-time manufacturing and continuous replenishment, and third party. 13040300  
 Grade level: 9 - 12  
 HS Credit(s): 0.5

<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Distribution and Logistics A  <u>TCC Prerequisite(s):</u> TSI and LMGT 1319  <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT MANAGEMENT OF TRANSPORTATION SYSTEMS A (MNGTRSY A DC)</b>  <b>TCC COURSE: (LMGT 1323) Domestic and International Transportation Management</b>  <i>*Courses may change due to availability</i></p>	<p><b>TPD40200A</b></p>
<p>This course will focus on physical distribution and total supply chain management. Includes warehouse operations management, hardware and software operations, bar codes, organizational effectiveness, just-in-time manufacturing and continuous replenishment, and third party.</p>	<p>13040200  Grade level: 9 - 12  HS Credit(s): 1 0.5</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Distribution and Logistics A  <u>TCC Prerequisite(s):</u> TSI and LMGT 1319  <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i></p>	<p>College Hour(s): 3.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT MANAGEMENT OF TRANSPORTATION SYSTEMS B (MNGTRSY B DC)</b>  <b>TCC COURSE: (LMGT 2334) Principles of Traffic Mgt</b>  <i>*Courses may change due to availability</i></p>	<p><b>TPD40200B</b></p>
<p>This course will focus on the role and functions of a transportation traffic manager within a commercial or public enterprise.</p>	<p>13040200  Grade level: 9 - 12</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Distribution and Logistics A  <u>TCC Prerequisite(s):</u> TSI and LMGT 1319  <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i></p>	<p>HS Credit(s): 0.5  College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT CONCEPTS OF DISTRIBUTION AND LOGISTICS TECHNOLOGY A (DISTLOG A DC)</b>  <b>TCC COURSE: (IBUS 1301) Principles of Exports</b>  <i>*Courses may change due to availability</i></p>	<p><b>TPD03800A</b></p>
<p>This course will focus on export management processes and procedures. Export topics include governmental controls and compliance, licensing of products, documentation, commercial invoices, and transportation. Emphasizes human and public relations, management of personnel, finance, and accounting procedures.</p>	<p>N1303800</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Distribution and Logistics A  <u>TCC Prerequisite(s):</u> TSI and LMGT 1325  <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i></p>	<p>Grade level: 10 - 12  HS Credit(s): 0.5  College Hour(s): 3.0  <b>Tier I</b></p>
<p><b>DUAL CREDIT CONCEPTS OF DISTRIBUTION AND LOGISTICS TECHNOLOGY B (DISTLOG B DC)</b>  <b>TCC COURSE: (IBUS 1302) Principles of Imports</b>  <i>*Courses may change due to availability</i></p>	<p><b>TPD03800B</b></p>
<p>This course will focus on import management processes and procedures. Import topics include the preparation and understanding of import documents such as customs invoices, packing lists, and commercial invoices.</p>	<p>N1303800</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> Dual Credit Distribution and Logistics A  <u>TCC Prerequisite(s):</u> TSI and LMGT 1325  <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i></p>	<p>Grade level: 10 - 12  HS Credit(s): 0.5  College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT BUSINESS LAW (BUSLAW AB DC)</b>  <b>TCC COURSE: BUSINESS LAW (BUS 2301)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD11701AB</b></p>
<p>This course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.</p>	<p>13011700  Grade level: 10 - 12  HS Credit(s): 1</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <i>Offered only at: TCC South Collegiate HS (P-TECH) and Diamond-Hills Jarvis HS (P-TECH)</i></p>	<p>College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ADVANCED MARKETING AB</b>  <b>TCC COURSE: PRINCIPLES OF MARKETING (MRKG 1311)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>MKD34700AB</b></p>
<p>In this course, students will gain an introduction to the marketing mix functions and processes. The course topics include: identification of consumer and organizational needs and explanation of environmental issues.</p>	<p>13034700  Grade level: 11 - 12</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> Dual Credit Business Management  <u>TCC Prerequisite(s):</u> BMGT1 1301 and BMGT 1313  <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH) and YMLA (P-TECH)</i></p>	<p>HS Credit(s): 1  College Hour(s): 3  <b>Tier I</b></p>

<b>DUAL CREDIT BUSINESS MANAGEMENT FOR LOGISTICS A (BUSMGTL ADC)</b> <b>TCC COURSE: (BMGT 1301) Supervision</b> <i>*Course offerings may vary each year due to availability</i>	<b>BAD12104A</b>
In this course, students will understand the role of the supervisor. Topics explored includes: managerial functions as applied to leadership, counseling, motivation, and human relations skills.	13012100
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11 – 12
<u>Prerequisite(s):</u> Dual Credit Business Management <u>TCC Prerequisite(s):</u> BMGT1 1301 and BMGT 1313 <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i>	HS Credit(s): 1 College Hour(s):-3 <b>Tier I</b>
<b>DUAL CREDIT BUSINESS MANAGEMENT FOR LOGISTICS B (BUSMGTL B DC)</b> <b>TCC COURSE: (BMGT 1313) Principles of Purchasing</b> <i>*Course offerings may vary each year due to availability</i>	<b>BAD12104B</b>
In this course, students will learn about the purchasing process as it relates to such as topics as inventory control, price determination, vendor selection, supply chain management, negotiation techniques, and ethical issues in purchasing.	13012100
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11 – 12
<u>Prerequisite(s):</u> Dual Credit Business Management <u>TCC Prerequisite(s):</u> BMGT1 1301 and BMGT 1313 <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT UNPAID PRACTICUM IN DISTRIBUTION &amp; LOGISITICS A (PRACDLG1 A DC)</b> <b>TCC COURSE: (BMGT 1331) Production</b> <i>*Course offerings may vary each year due to availability</i>	<b>TPD40470A</b>
In this course, students will understand the fundamentals of techniques used in the practice of production and operations management. Course topics includes location, design, and resource allocation.	13040470
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11 - 12
<u>Prerequisite(s):</u> Dual Credit Business Management <u>TCC Prerequisite(s):</u> MRKG 1311 and ACCT 2301 <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT UNPAID PRACTICUM IN DISTRIBUTION &amp; LOGISITICS B (PRACDLG1 B DC)</b> <b>TCC COURSE: (LMGT 2388) Internship: Logistics and Materials</b> <i>*Course offerings may vary each year due to availability</i>	<b>TPD40470B</b>
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the College and the employer.	13040470
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.	Grade level: 11 - 12
<u>Prerequisite(s):</u> Dual Credit Business Management <u>TCC Prerequisite(s):</u> LMGT 2334 <i>Offered only at: Diamond-Hills Jarvis HS (P-TECH)</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>

# Software Development, IT and User Experience P-TECH – Business & Industry Endorsement

## FOR THE GRADUATING CLASS OF 2025 and beyond

The Software Development, IT and User Experience P-TECH Academy offers one (1) Career Focus.

<b>South Hills High School</b>								
<b>Software Development, IT and User Experience P-TECH Academy</b>								
<b>Web Applications Crosswalk</b>								
	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or *III	English II or *III	*English III or IV OR Rhet. 1301	*English III or IV OR Rhet 1301	AP Lit	AP Lit
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or *Pre-Calculus	Algebra II or *Pre-Calculus	*Pre-Calculus or *Calculus	* Pre-Calculus or *Calculus
	World Geography AP Human Geo	World Geography AP Human Geo	*AP World History	*AP World History	*AP US History	*AP US History	Government	Econ
	Biology Pre-AP Bio.	Biology Pre-AP Bio.	Chemistry	Chemistry	Physics or Chem II	Physics OR Chem II	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	World Language	World Language	World Language	World Language				
	*Dual Credit Fine Arts	*Dual Credit Speech	Health	Elective	Possible Elective	Possible Elective		
	PE	PE						
Dual Credit Principles of Information Technology AB <sup>1</sup> (ITD27201AB)	Dual Credit Computer Science I AB <sup>1</sup> (TAD2151AB)	Dual Credit Fundamentals of Computer Science AB <sup>1</sup> (TAD2140AB) AND Dual Credit Computer Science II AB <sup>2</sup> (TAD2153AB)	Dual Credit Web Communications T <sup>1</sup> (ITD80810T) AND Dual Credit Mobile Application Development AB <sup>2</sup> (TAD80390AB)	Dual Credit Foundations of Cybersecurity AB <sup>1</sup> (ITD27904AB) AND Dual Credit Networking AB <sup>2</sup> (ITD27402AB)		Dual Credit Web Design AB <sup>1</sup> (TAD7728AB) AND Honors Paid or Unpaid Practicum in Information Technology AB (ITH27212AB); (ITH27202AB) OR Honors Paid or Unpaid Practicum in STEM AB (STH37405AB); (STH37402AB) OR Honors Project-Based Research AB (CPH01500AB) OR Career Prep AB (CP01302AB)	Honors Paid or Unpaid Practicum in Information Technology AB (ITH27212AB); (ITH27202AB) OR Honors Paid or Unpaid Practicum in STEM AB (STH37405AB); (STH37402AB) Honors Project-Based Research AB (or CPH01500AB) OR Career Prep AB (CP01302AB)	
<b>College</b>	ARTS 1301**	SPEECH 1321**	<b>CPMT 1403</b>	<b>ITSE 1411<sup>1</sup></b>		ITSE 2371	ENGL 1301**	ENGL 1302
	<b>COSC 1301<sup>1*</sup></b>	<b>ITNW 1309</b>	<b>COSC 1436<sup>2*</sup></b>	<b>ITSE 1333</b>	<b>ITSY 1300<sup>1*</sup></b>	ITSE 2310	MATH 1314**	MATH 2412
					<b>ITNW 1425<sup>2*</sup></b>	Behavioral Sci**	<b>ITSE 2302</b>	INEW 2434
							ITSE 2409*	
<b>Hrs.</b>	Up to 6	Up to 6	Up to 11	Up to 11	Up to 10	Up to 10	Up to 14	Up to 11
<b>Degree:</b> AAS Information Technology: Web Applications Programming - 60+ hours <b>College Level Certification(s):</b> Web Applications Programming I, Level 1 (22 hrs.) or Web Applications Programming II, Level 2 (31 hrs.) <b>Industry Certification(s):</b> WD Certified Web Design Certification								
*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Students that are not TSI met will take AP courses in-lieu of dual credit course. **Need for AAS Students who complete Fundamentals of Computer Science, Computer Science I, Computer Science II, and either Practicum will have met requirements for the Programming and Software Development Program of Study for a Business and Industry or STEM endorsement if the math and science requirements are met.								

## COURSE DESCRIPTIONS FOR THE SOFTWARE DEVELOPMENT, IT AND USER EXPERIENCE P-TECH

<b>HONORS PROJECT-BASED RESEARCH AB (PROBS1 AB/H) (Available Fall 2023)</b> *Previously Problems and Solutions	<b>CPH01500AB</b>
<p>Students will research a real-world problem and possible solutions throughout this course. Students develop a project on a topic related to career interests, use scientific methods of investigation to conduct in-depth research, are matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. This course must be cooperatively planned and supervised by the teacher ensuring that the student has guidance and support of a mentor or interdisciplinary team. The district must maintain a written project plan for each student enrolled in the course.</p>	12701101 Grade level: 11-12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Specific to program focus/pathway and is the previous course in the sequence.  <u>Offered at:</u> All high school campuses</p>	College Hour(s): NA <b>Tier II</b>
<b>CAREER PREPARATION I AB (CAREERP1 AB)</b>	<b>CP01300AB</b>
<p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for <u>ten hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	12701121 Grade level: 11 - 12 HS Credit(s): 2
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <u>Offered at:</u> All high school campuses</p>	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II AB (CAREERP2 AB)</b>	<b>CP01400AB</b>
<p>The Career Preparation II course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>ten hours per week</u> (or average of 20 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I course.</p>	12701122 Grade level: 12 HS Credit(s): 2
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> Career Preparation I AB  <u>Offered at:</u> All high school campuses</p>	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION I/EXTENDED I AB (EXCAREE1 AB)</b>	<b>CP01302AB</b>
<p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I/Extended provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>fifteen hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	12701305 Grade level: 11-12 HS Credit(s): 3
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <u>Offered at:</u> All high school campuses</p>	College Hour(s): NA <b>Tier III</b>
<b>CAREER PREPARATION II/EXTENDED (EXCAREE2 AB)</b>	<b>CP01402AB</b>
<p>The Career Preparation I/Extended course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working fifteen hours per week (or average of 30 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I/Extended course.</p>	12701141 Grade level: 12 HS Credit(s): 3

<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Career Preparation I <i>Offered at: All high school campuses</i>	College Hour(s): NA <b>Tier III</b>
<b>HONORS UNPAID PRACTICUM IN INFORMATION TECHNOLOGY AB/D (PRACIT1 AB/H)</b>	<b>ITH27202AB</b>
In addition to the regular course curriculum, students in this double period honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the business and industry environment. See the Unpaid Practicum in Information Technology course description in the Career & Technical Education, Information Technology section of this document.	13028000 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Previous P-TECH Software Development, IT and User Experience coursework <i>Offered at: South Hills (P-TECH)</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN INFORMATION TECHNOLOGY AB/EXTENDED AB (EXPRIT2 AB/H)</b>	<b>ITH27212AB</b>
In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the business and industry environment. See the Unpaid Practicum in Information Technology course description in the Career & Technical Education, Information Technology section of this document.	13028050 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Previous P-TECH Software Development, IT and User Experience coursework <i>Offered at: South Hills (P-TECH)</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS UNPAID PRACTICUM IN STEM AB/D (PRACSTEM AB/H)</b>	<b>STH37402AB</b>
In addition to the regular course curriculum, students in this double period honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the business and industry environment. See the Unpaid Practicum in STEM course description in the Career & Technical Education, STEM section of this document.	13037400 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Previous P-TECH Software Development, IT and User Experience coursework <i>Offered at: South Hills (P-TECH)</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM/EXTENDED AB (EXPRSTEM1 AB/H)</b>	<b>STH37405AB</b>
In addition to the regular course curriculum, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the business and industry environment. See the Unpaid Practicum in STEM course description in the Career & Technical Education, STEM section of this document.	13037405 Grade level: 12 HS Credit(s): 3
<u>Instructional Material:</u> Contact Career and Technical Education for related materials <u>Prerequisite(s):</u> Previous P-TECH Software Development, IT and User Experience coursework <i>Offered at: South Hills (P-TECH)</i>	College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT PRINCIPLES OF INFORMATION TECHNOLOGY AB (PRINIT DC AB)</b> <b>TCC Course: (COSC 1301) Introduction to Computing +</b> <i>*Course offerings may vary each year due to availability</i>	<b>ITD27201AB</b>
Students will gain an overview of computer systems-hardware, operating systems, the Internet, and application software including word processing, spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other interdisciplinary settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science.	13027200 Grade level: 9 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>FWISD Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Course taught by a TCC-approved adjunct instructor</i> <i>Offered at: Diamond Hill Jarvis (P-TECH), Eastern Hills (P-TECH), South Hills (P-TECH), South Hills (P-TECH), and TCC South Collegiate HS (P-TECH)</i>	College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT COMPUTER SCIENCE I AB (TACS 1 DC AB)</b> <b>TCC (ITNW 1309) Fundamentals of Cloud Computing</b> <i>*Course offerings may vary each year due to availability</i>	<b>TAD2151AB</b>
Students will be introduced to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.	03580200 Grade level: 9
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>FWISD Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Course taught by a TCC-approved adjunct instructor</i> <i>Offered at: South Hills (P-TECH)</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>



<p><b>DUAL CREDIT FUNDAMENTALS OF COMPUTER SCIENCE AB (TAFCS DC AB)</b>  <b>TCC Course: (CPMT 1403) Introduction to Computer Technology</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>TAD2140AB</b>
<p>Students will gain an understanding of current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.</p>	03580140 Grade level: 10 - 12
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Eastern Hills (P-TECH) and South Hills (P-TECH)</i></p>	HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>
<p><b>DUAL CREDIT COMPUTER SCIENCE II AB (TACS 2 DC AB)</b>  <b>TCC Course: (COSC 1436) Programming Fundamentals I</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>TAD2153AB</b>
<p>This course introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science.</p>	03580300 Grade level: 10 - 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> COSC 1301  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: South Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>
<p><b>DUAL CREDIT WEB COMMUNICATIONS T (TAWEBCM T DC)</b>  <b>TCC Course: (ITSE 1411) Beginning Web Programming</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ITD80810T</b>
<p>Students will develop skills in web page programming including mark-up and scripting languages.</p>	03580810 Grade level: 10 - 12 HS Credit(s): 0.5 College Hour(s): 4 <b>Tier I</b>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> COSC 1301  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: South Hills (P-TECH)</i></p>	
<p><b>DUAL CREDIT MOBILE APPLICATION DEVELOPMENT AB (TAMBAD AB DC)</b>  <b>TCC Course: (ITSE 1333) Mobile Application Development</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>TAD80390AB</b>
<p>Students will gain an overview of different mobile platforms and their development environments. Design, write, and test small interactive programs for mobile platforms using current development software products. Major topics are discussion of the design process, develop applications and publish applications.</p>	03580390 Grade level: 10 - 12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> COSC 1436  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: South Hills (P-TECH)</i></p>	College Hour(s): 4 <b>Tier I</b>
<p><b>DUAL CREDIT FOUNDATIONS OF CYBERSECURITY AB (FODCYBER DC AB)</b>  <b>TCC Course: (ITSY 1300) Fundamentals of Information Security</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ITD27904AB</b>
<p>Students will be introduced to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed.</p>	03580850 Grade level: 10-12 HS Credit(s): 1
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: South Hills (P-TECH)</i></p>	College Hour(s): 3 <b>Tier I</b>
<p><b>DUAL CREDIT NETWORKING AB (NTWRK DC AB)</b>  <b>TCC Course: (ITNW 1425) Fundamentals of Networking Technologies</b>  <i>*Course offerings may vary each year due to availability</i></p>	<b>ITD27402AB</b>
<p>Students will receive instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.</p>	13027400 Grade level: 10 – 12
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> ITSC 1305  <i>Course taught by a TCC-approved adjunct instructor</i>  <i>Offered at: Carter-Riverside (P-TECH), Eastern Hills (P-TECH) and South Hills (P-TECH)</i></p>	HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>

<b>DUAL CREDIT WEB DESIGN AB (TAWEBDN AB DC)</b> <b>TCC Course: (ITSE 2302) Intermediate Web Programming</b> <i>*Course offerings may vary each year due to availability</i>	<b>TAD7728AB</b>
Students will develop skills in server-side and client-side techniques for Web development.	03580820
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>FWISD Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> ITSE 1411 <i>Course taught by a TCC-approved adjunct instructor</i> <i>Offered at: South Hills (P-TECH)</i>	Grade level: 10 - 12 HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT FUNDAMENTALS OF COMPUTER SCIENCE AB (TAFCS DC AB)</b> <b>TCC Course: (CPMT 1403) Introduction to Computer Technology</b> <i>*Course offerings may vary each year due to availability</i>	<b>TAD2140AB</b>
Students will gain an understanding of current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.	03580140
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials. <u>FWISD Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Course taught by a TCC-approved adjunct instructor</i> <i>Offered at: Eastern Hills (P-TECH) and South Hills (P-TECH)</i>	Grade level: 10 - 12 HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>

# Business Administration & Management P-TECH

## Business & Industry Endorsement

**FOR THE GRADUATING CLASS OF 2026 and beyond**

The Business Administration P-TECH Academy offers one (1) Career Focus.

### Success High School Business Administration PTECH Academy Crosswalk Associates of Arts Business/HS Diploma Multidisciplinary Endorsement/100% Online

Gr.	Year 1				Year 2		Year 3	
Sem.	1 <sup>st</sup> 9 weeks	2 <sup>nd</sup> 9weeks	3 <sup>rd</sup> 9 weeks	4 <sup>th</sup> 9weeks	Fall	Spring	Fall	Spring
<b>High School</b>	English I	English I	English II	English II	English III	English III	English IV	English IV
	Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	4 <sup>th</sup> year Math	4 <sup>th</sup> year Math
	World Geography	World Geography	World History	World History	*US History	* US History	Government	Economics
	Biology	Biology	Chemistry	Chemistry	Physics Or Environmental Systems	Physics Or Environmental Systems	4th Year Science or Environmental Systems	4th Year Science or Environmental Systems
	Spanish I or II PE ART	Spanish I or II PE ART	*Speech	Health				Honors Practicum in Business Management AB (BAH12202 AB) OR Career Prep AB (CP01300AB)
	Dual Credit Business Information Management I AB (BAD11412AB) OR Dual Credit Advanced Marketing AB (MKD34700AB DC) OR Dual Credit Business Management AB (BAD12102AB)		Dual Credit Business Law AB (BAD11701 AB)			Dual Credit Accounting 1A (FND16612A)	Dual Credit Accounting 1B (FND16612B)	
<b>College</b>	KINE (PE) 1164	<b>BCIS 1305</b>	Huma 1301	BIOL 1408	*ENGL 1301	GOVT 2305	HIST 1302	<b>ACCT 2302</b> ^
	ARTS 1301	<b>MRKG 1311</b> ^	SPCH 1321	ECON 2301^	*MATH 1324	HIST 1301	GOVT 2306	BMGT 1341#
	HUMA 1301#	<b>BUSI 1301</b> ^	<b>BUSI 2301</b> ^				ECON 2302^	BUSI 2305
							ENGL 1302	ACNT 1313#
<b>Hrs.</b>	Up to 9	Up to 9	Up to 9	Up to 6	Up to 6	Up to 6	<b>ACCT 2301</b> ^#	Up to 12
	<b>Degree:</b> AA Business Administration - 60+ hours or and AS in Business Administration <b>College Level Certification(s):</b> Business Certification Level 1 – 24 hours							
	*TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in-lieu of dual credit course. Only college-level credit is awarded. Students who complete Business Management, Business Law, and Practicum in Business Management will have met requirements for the Business Management Program of Study for a Business and Industry endorsement. *Required courses for level 1 business certificate. #Required courses for AA in Business degree.							

## COURSE DESCRIPTIONS FOR BUSINESS ADMINISTRATION P-TECH

<p><b>DUAL CREDIT BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB DC)</b>  <b>TCC COURSE: Business Computer Applications (BCIS 1305)</b>  <i>*Courses may change due to availability</i></p>	<p><b>BAD11412AB</b></p>
<p>Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets databases, presentation graphics, and business-oriented utilization of the Internet.</p>	<p>13011400</p>
<p><u>Instructional Material:</u> TCC Course: Business Computer Applications (BCIS 1305)  <u>FWISD Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI  <i>Offered only at: Marine Creek, Success HS, YWLA, and TCC South Collegiate HS (P-Tech)</i></p>	<p>Grade level: 9 - 12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ADVANCED MARKETING (ADVMKTG AB DC)</b>  <b>TCC COURSE: PRINCIPLES OF MARKETING (MRKG 1311)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>MKD34700AB</b></p>
<p>In this course, students will gain an introduction to the marketing mix functions and processes. The course topics include: identification of consumer and organizational needs and explanation of environmental issues.</p>	<p>13034700</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials.  <u>Prerequisite(s):</u> Dual Credit Business Management  <u>TCC Prerequisite(s):</u> None  <i>Offered only at: Marine Creek, Success HS, YWLA, and TCC South Collegiate HS (P-Tech)</i></p>	<p>Grade level: 11 - 12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT BUSINESS MANAGEMENT AB (BUSMGT AB DC)</b>  <b>TCC COURSE: (BUSI 1301) Business Principles</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD12102AB</b></p>
<p>This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making process. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and International business.</p>	<p>13012100</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> None  <i>Offered only at: Success HS and YMLA</i></p>	<p>Grade level: 9-12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT BUSINESS LAW (BUSLAW AB DC)</b>  <b>TCC COURSE: BUSINESS LAW (BUS 2301)</b>  <i>*Course offerings may vary each year due to availability</i></p>	<p><b>BAD11701AB</b></p>
<p>This course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.</p>	<p>13011700</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials  <u>Prerequisite(s):</u> None  <i>Offered only at: TCC South Collegiate HS (P-Tech), Success HS, and Diamond Hill Jarvis (P-Tech)</i></p>	<p>Grade level: 9 - 12            HS Credit(s): 1            College Hour(s): 3  <b>Tier I</b></p>
<p><b>DUAL CREDIT ACCOUNTING IA (ACCOUNT1 A DC)</b>  <b>TCC Course: Principles of Financial Accounting: (ACCT 2301)</b>  <i>*Courses may change due to availability</i></p>	<p><b>FND16612A</b></p>
<p>This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).</p>	<p>13016600</p>
<p><u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials  <u>Prerequisite(s):</u> None  <u>TCC Prerequisite(s):</u> TSI compliant in Math  <u>TCC Recommended Co-requisites:</u> MATH 1324  <i>Offered only at: YMLA and Success HS</i></p>	<p>Grade level: 9 - 12            HS Credit(s): 0.5            College Hour(s): 3  <b>Tier I</b></p>

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**DUAL CREDIT ACCOUNTING IB (ACCOUNT1B DC)****FND16612B****TCC Course: Principles of Managerial Accounting: (ACCT 2302)***\*Courses may change due to availability*

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This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation.

13016600  
Grade level: 11 - 12  
HS Credit(s): 0.5

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Instructional Material: TCC Course: Principles of Managerial Accounting (ACCT 2302)

TCC Prerequisite(s): ACCT-2301

*Course taught by an approved adjunct instructor.*

*Offered only at: Marine Creek, Success HS, and TCC South Collegiate HS (P-Tech)*

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College Hour(s): 3  
**Tier I**

# Young Men's Leadership Academy PTECH

## STEM Endorsement

### FOR THE GRADUATING CLASS OF 2026 and Beyond

The YMLA PTECH Academy offers two (2) Career Focuses.

<b>Young Men's Leadership Academy Robotics and Automation Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or III	English II or III	English III* or IV	English III or IV^	English IV or English Elective	English IV or English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	College Algebra*	Pre-Calculus^	4 <sup>th</sup> Year Math	4 <sup>th</sup> Year Math
	AP or Honors Geography	AP or Honors Geography	AP or Honors World History	AP or Honors World History	US History	US History	Government*	Economics^
	Biology	Biology	Physics or Chemistry	Physics or Chemistry	Physics or AP or Honors Chemistry	Physics or AP or Honors Chemistry	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	PE	PE	Health		CIM AB (STH37482AB)	CIM AB (STH37482AB)	Practicum in STEM AB (STH37405AB)	Practicum in STEM AB (STH37405AB)
	IED AB (STH07422AB)	IED AB (STH07422AB)	Engineering Science AB (STH37482AB)	Engineering Science AB (STH37482AB)	Digital Electronics AB* Double-Block (STD37443AB)	Programmable Logic Controller II AB* Double-Block (TBD: STD03690AB)	Basic Fluid Power AB* (MAD03683AB)	Robotics II AB* Double-Block (STD37003AB)
	Art Appreciation*	Speech*	Robotics I AB* (STD37002AB)	Solid State Electronics A* Double-Block (STD36902A)	No Articulation for CETT 1445* Double-Block	No Articulation for CETT 2435* Double-Block	No Articulation for RBTC 1447* Double-Block	No Articulation for ELMT 2337*
	Spanish I^	Spanish II^	AC/DC Electronics AB* Double-block (STD36802AB)	Solid State Electronics B* Double-Block (STD36902B)				
<b>College</b>	<b>ARTS 1301</b>	<b>SPCH 1321</b>	<b>RBTC 1351</b>	<b>RBTC 1401</b>	<b>CETT 1449</b>	<b>ELPT 2455</b>	<b>HYDR 1345</b>	<b>RBTC 2445</b>
	^SPAN 1411	^SPAN 1412	<b>CETT 1409</b>	<b>CETT 1441</b>	CETT 1445	CETT 2435	RBTC 1447	ELMT 2337
					ENGL 1301	^ENGL 1302	GOVT 2305	^ECON 2301
					MATH 1314	^MATH 2412		
<b>Hrs.</b>	Up to 7	Up to 7	Up to 7	Up to 8	Up to 14	Up to 15	Up to 10	Up to 10
<p><b>Degree:</b> AAS Robotics and Automation: 60+ hours  <b>College Level Certification:</b> Mechatronics Technician, Level 1 Certification: 30 hours  <b>Industry Certification(s):</b> Certified SolidWorks Associate or Autodesk Inventor</p> <p>TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in lieu of a dual credit course.                      *Required Dual Credit course to meet Associate Degree requirements                      ^Optional Dual Credit course</p> <p>Students who complete Principles of Applied Engineering, AC/DC Electronics, Solid State Electronics, and Digital Electronics will have met requirements for the Renewable Energy Program of Study for a STEM Endorsement. This is capped with a Practicum in STEM if the math and science requirements are met.</p>								

# Young Men's Leadership Academy PTECH

## Business and Industry Endorsement

**FOR THE GRADUATING CLASS OF 2026 and Beyond**

<b>Young Men's Leadership Academy Business Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or III	English II or III	English III* or IV OnRamps	English III or IV OnRamps*	English IV or English Elective	English IV or English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	Algebra II or Pre-Calculus	Algebra II or Pre-Calculus	AP Calculus AB or BC	AP Calculus AB or BC
	AP or Honors Geography	AP or Honors Geography	AP or Honors World History	AP or Honors World History	US History*	US History*	Economics*	Economics*
	Biology	Biology	AP or Honors Chemistry	AP or Honors Chemistry	OnRamps Physics or Anat. & Phys.	OnRamps Physics or Anat. & Phys.	4 <sup>th</sup> Year Science*	4 <sup>th</sup> Year Science
	Art Appreciation*	Speech*	PE*	No Articulation for MATH 1324*	Special Topics in Social Studies: Texas Government T*	United States Government T*	Practicum in Business Management AB /Career Prep AB (BAH12202AB or CP01300AB)	Practicum in Business Management AB /Career Prep AB (BAH12202AB or CP01300AB)
	Spanish I*	Spanish II*	Dual Credit Business Information Management I AB* (BAD11412AB)	Dual Credit Advanced Marketing AB^ (MKD34700AB)	Dual Credit Accounting I A* (FND16612A)	Dual Credit Accounting I B* (FND16612B)	No Articulation for BUSI 2305*	Business Law AB^ (BAD11701AB)
		Dual Credit Business Management AB* (BAD12102AB)						
<b>College</b>	ARTS 1301	SPCH 1321	KINE 1164	MATH 1324	<b>ACCT 2301</b>	<b>ACCT 2302</b>	<b>BUSI 2305</b>	<b>^BUSI 2301</b>
	^SPAN 1411	^SPAN 1412	<b>BCIS 1305</b>	<b>^MRKG 1311</b>	ENGL 1301	ENGL 1302	ECON 2301	ECON 2302
		<b>BUSI 1301</b>			HIST 1301	HIST 1302	BIOL 1406 or PHYS 1401 or GEOL 1401	
					GOVT 2306	GOVT 2305		
<b>Hrs.</b>	Up to 7	Up to 10	Up to 4	Up to 6	Up to 12	Up to 12	Up to 10	Up to 6
<b>Degree:</b> AA Business: 60+ hours <b>College Level Certification:</b> Business Certification, Level 1: 24 hours <b>Industry Certification(s):</b> Microsoft Office Specialist – Word or Microsoft Office Specialist – Excel								
TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in lieu of a dual credit course. *Required Dual Credit course to meet Associate Degree requirements ^Optional Dual Credit course Business Level 2 certification additional courses: BMGT 1327, BMGT 1341 & BCIS 1305 + 6 hours of electives Students who complete Business Information Management, Business Management, Business Law, and Practicum in Business Management/Entrepreneurship will have met requirements for the Business Management Program of Study for a Business and Industry Endorsement.								

## COURSE DESCRIPTIONS FOR PTECH AT YMLA

<b>CAREER PREPARATION I AB (CAREERP1 AB)</b>	<b>CP01300AB</b>
<p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for <u>ten hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p>12701121 Grade level: 11 - 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION II AB (CAREERP2 AB)</b>	<b>CP01400AB</b>
<p>The Career Preparation II course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>ten hours per week</u> (or average of 20 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I course.</p>	<p>12701122 Grade level: 12 HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Career Preparation I AB <i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION I/EXTENDED I AB (EXCAREE1 AB)</b>	<b>CP01302AB</b>
<p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I/Extended provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>fifteen hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p>12701305 Grade level: 11-12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> None <i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>CAREER PREPARATION II/EXTENDED (EXCAREE2 AB)</b>	<b>CP01402AB</b>
<p>The Career Preparation I/Extended course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working fifteen hours per week (or average of 30 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I/Extended course.</p>	<p>12701141 Grade level: 12 HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Career Preparation I <i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA <b>Tier III</b></p>
<b>HONORS UNPAID PRACTICUM IN STEM/d AB (PRACSTEM AB/H)</b>	<b>STH37402AB</b>
<p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In addition, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional</p>	<p>13037400 Grade level: 12 HS Credit(s): 2</p>



capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Two credits from a combination of STEM courses <i>Offered only at: YMLA</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM/EXTENDED AB (EXPRSTEM1 AB/H)</b>	<b>STH37405AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037405 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Two credits from a combination of STEM courses <i>Offered only at: YMLA</i>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM AB (PRACSTEM AB/H)</b>	<b>STH37409AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for ten (10) hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037400 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Two credits from a combination of STEM courses <i>Offered only at: YMLA</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS UNPAID PRACTICUM IN BUSINESS MANAGEMENT AB (PRACBM AB/H)</b>	<b>BAH12202AB</b>
This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within the designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. Students will build a professional portfolio demonstrating skills in Business Management. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13012200 Grade level: 11-12
<u>Instructional Material:</u> Contact Career and Technical Education Department for related materials <u>Prerequisite(s):</u> Two credits from a combination of Business courses <i>Offered at: YMLA</i>	HS Credit(s): 2 College Hour(s): NA <b>Tier II</b>
<b>HONORS INTRODUCTION TO ENGINEERING DESIGN AB (PLTW) (IED AB/H)</b>	<b>STH07422AB</b>
In this honors course, students use a problem-solving model to improve existing products and invent new ones. They learn how to apply this model to solve problems in and out of the classroom. Using sophisticated three-dimensional modeling software, students communicate the details of the products. Emphasis is placed on	N1303742 Grade level: 9- 10 HS Credit(s): 1

analyzing potential solutions and communicating ideas to others. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	
<u>Instructional Material:</u> Project Lead the Way materials furnished by CTE department	College Hour(s): NA
<u>Prerequisite(s):</u> Engineering Essentials (PLTW)	Tier II
<u>Offered at:</u> YMLA	
<b>HONORS ENGINEERING SCIENCE (PLTW) AB (ENGSCIEN AB/H)</b>	<b>STH03742AB</b>
This honors course helps students understand the field of engineering/engineering technology. Exploring various manufacturing processes help students learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The course also includes concerns about the social and political consequences of technological change. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037500 Grade level: 10 – 11 HS Credit(s): 1
<u>Instructional Material:</u> Project Lead the Way materials furnished by CTE department	College Hour(s): NA
<u>Prerequisite(s):</u> Introduction to Engineering Design (PLTW)	<b>Tier II</b>
<u>Offered at:</u> YMLA	
<b>HONORS COMPUTER INTEGRATED MANUFACTURING AB (PLTW) (CIM AB/H)</b>	<b>STH37482AB</b>
This is a course of study in the PLTW program. Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	N1303748 Grade level: 11 - 12 HS Credit(s): 1
<u>Instructional Material:</u> Project Lead the Way materials furnished by CTE department	College Hour(s): NA
<u>Prerequisite(s):</u> Engineering Science (PLTW)	<b>Tier II</b>
<u>Offered at:</u> YMLA	
<b>DUAL CREDIT ROBOTICS I AB (ROBOT 1AB DC)</b>	<b>STD37002AB</b>
<b>TCC Course: (RBTC 1351) Robotics Mechanisms</b>	
<i>*Course offerings may vary each year due to availability</i>	
In this course, students learn the application of principles and the calculation of practical problems involving four bar linkages, cams, gears, and gear trains. Topics include vector quantities, angular displacement, motion concepts, velocities, and motions.	13037000 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 3
<u>Prerequisite(s):</u> None	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> MATH 1332	
<u>Offered only at:</u> YMLA	
<b>DUAL CREDIT AC/DC ELECTRONICS AB (ACDCELEC AB DC)</b>	<b>STD36802AB</b>
<b>TCC Course: (CETT 1409) DC-AC Circuits</b>	
<i>*Course offerings may vary each year due to availability</i>	
In this course, students learn the fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Emphasis on circuit simulation using PSpice. Course includes soldering techniques, hand tools, circuit fabrication techniques, troubleshooting techniques and circuit analysis using Mathcad.	13036800 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 4
<u>Prerequisite(s):</u> None	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> TSI Met in Algebraic Math pathway	
<u>Offered only at:</u> YMLA	
<b>DUAL CREDIT SOLID STATE ELECTRONICS A (SOSTELEC A DC)</b>	<b>STD36902A</b>
<b>TCC Course: (RBTC 1401) Programmable Logic Controllers</b>	
<i>*Course offerings may vary each year due to availability</i>	
In this course, students will learn about programmable logic controllers (PLC). Topics include processor units, USER numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming.	13036900 Grade level: 10-12 HS Credit(s): 0.5
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 4
<u>Prerequisite(s):</u> None	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> None	
<u>Offered only at:</u> YMLA	
<b>DUAL CREDIT SOLID STATE ELECTRONICS B (SOSTELEC B DC)</b>	<b>STD36902B</b>
<b>TCC Course: (CETT 1441) Solid State Circuits</b>	
<i>*Course offerings may vary each year due to availability</i>	
In this course, students study various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.	13036900 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	HS Credit(s): 0.5
<u>Prerequisite(s):</u> Solid State Electronics A	College Hour(s): 4
<u>TCC Prerequisite(s):</u> CETT 1409 and TSI Met in Algebraic Math pathway	<b>Tier I</b>
<u>Offered only at:</u> YMLA	

<b>DUAL CREDIT DIGITAL ELECTRONICS AB (DIGELC DC AB)</b> <b>TCC Course: (CETT 1449) Digital Systems</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD37443AB</b>
In this course, students will learn about electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counters, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits.	13037600 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 4
<u>Prerequisite(s):</u> None	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> TSI Met in Algebraic Math pathway	
<i>Offered only at: YMLA</i>	
<b>DUAL CREDIT PROGRAMMABLE LOGIC CONTROLLER II AB (TBD: PROLCNT2 AB DC)</b> <b>TCC Course: (ELPT 2445) Programmable Logic Control II</b> <i>*Course offerings may vary each year due to availability</i>	<b>TBD: STD03690AB</b>
In this course, students will learn advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls.	N1303690 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> None	College Hour(s): 4
<u>TCC Prerequisite(s):</u> None	<b>Tier I</b>
<i>Offered only at: YMLA</i>	
<b>DUAL CREDIT BASIC FLUID POWER AB (BASICFP AB DC)</b> <b>TCC Course: (HYDR 1345) Hydraulics and Pneumatics</b> <i>*Course offerings may vary each year due to availability</i>	<b>MAD03683AB</b>
In this course, students learn the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.	N1303683 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> None	College Hour(s): 3
<u>TCC Prerequisite(s):</u> None	<b>Tier I</b>
<i>Offered only at: YMLA</i>	
<b>DUAL CREDIT ROBOTICS II AB (ROBOTIC 2AB DC)</b> <b>TCC Course: (RBTC 2445) Robot Application, Set-up, and Testing</b> <i>*Course offerings may vary each year due to availability</i>	<b>STD37003AB</b>
In this course, students engage in a capstone course that provides the student with laboratory experience in the installation, set-up, and testing of robotic cells. Topics include maintenance.	13037050 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	HS Credit(s): 1
<u>Prerequisite(s):</u> Robotics II	College Hour(s): 4
<u>TCC Prerequisite(s):</u> None	<b>Tier I</b>
<i>Offered only at: YMLA</i>	
<b>DUAL CREDIT BUSINESS MANAGEMENT AB (BUSMGT AB DC)</b> <b>TCC COURSE: (BUSI 1301) Business Principles</b> <i>*Course offerings may vary each year due to availability</i>	<b>BAD12102AB</b>
This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making process. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and International business.	13012100 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 3
<u>Prerequisite(s):</u> None	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> None	
<i>Offered only at: YMLA</i>	
<b>DUAL CREDIT BUSINESS INFORMATION MANAGEMENT I AB (BUSIM1 AB DC)</b> <b>TCC COURSE: Business Computer Applications (BCIS 1305)</b> <i>*Courses may change due to availability</i>	<b>BAD11412AB</b>
Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets databases, presentation graphics, and business-oriented utilization of the Internet.	13011400 Grade level: 9 - 12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials	College Hour(s): 3
<u>Prerequisite(s):</u> None	<b>Tier I</b>
<u>TCC Prerequisite(s):</u> TSI	
<i>Offered only at: YMLA</i>	
<b>DUAL CREDIT ADVANCED MARKETING AB (ADVMKT AB DC)</b> <b>TCC COURSE: Principles of Marketing (MRKG 1311)</b> <i>*Courses may change due to availability</i>	<b>MKD34700AB</b>
Students will study marketing mix functions and process, including identification of consumer and organizational needs and explanation of environmental issues.	13034700 Grade level: 10 - 12

<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <u>Offered only at:</u> YMLA	HS Credit(s): 2 College Hour(s): 3 Tier I
<b>DUAL CREDIT ACCOUNTING IA (ACCOUNT1 A DC)</b> <b>TCC Course: Principles of Financial Accounting: (ACCT 2301)</b> <i>*Courses may change due to availability</i>	<b>FND16612A</b>
This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).	13016600 Grade level: 11 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> TSI compliant in Math <u>TCC Recommended Co-requisites:</u> MATH 1324 <u>Offered only at:</u> YMLA	College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT ACCOUNTING IB (ACCOUNT1B DC)</b> <b>TCC Course: Principles of Managerial Accounting: (ACCT 2302)</b> <i>*Courses may change due to availability</i>	<b>FND16612B</b>
This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation.	13016600 Grade level: 11 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> ACCT-2301 <u>Offered only at:</u> YMLA	College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT BUSINESS LAW (BUSLAW AB DC)</b> <b>TCC COURSE: BUSINESS LAW (BUS 2301)</b> <i>*Course offerings may vary each year due to availability</i>	<b>BAD11701AB</b>
This course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.	13011700 Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): 3
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials, <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <u>Offered only at:</u> YMLA	<b>Tier I</b>
<b>DUAL CREDIT BUSINESS INFORMATION MANAGEMENT II (BUSIM2 AB DC)</b> <b>TCC Course: Business Ethics: (BMGT 1341)</b> <i>*Courses may change due to availability</i>	<b>BADXXXXXAB</b>
This course is a discussion of ethical issues, the development of a moral frame of reference, and the need for an awareness of social responsibility in management practices and business activities. Includes ethical corporate responsibility.	13016600 Grade level: 10 - 12 HS Credit(s): 1.0
<u>Instructional Material:</u> TCC Course: Principles of Managerial Accounting (ACCT 2302) <u>TCC Prerequisite(s):</u> ACCT-2302 <i>Course taught by an approved adjunct instructor.</i> <u>Offered only at:</u> YMLA and TCC South Collegiate HS (P-Tech)	College Hour(s): 3.0 <b>Tier I</b>

# I.M. Terrell Academy PTECH

## STEM Endorsement

### FOR THE GRADUATING CLASS OF 2026 and Beyond

The I.M. Terrell PTECH Academy offers one (1) Career Focus.

<b>I.M. Terrell Academy Robotics and Automation Crosswalk</b>								
Gr.	9 <sup>th</sup> Grade		10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade	
Sem.	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>High School</b>	English I or II	English I or II	English II or III	English II or III	English III* or IV	English III or IV^	English IV or English Elective	English IV or English Elective
	Algebra I or Geometry	Algebra I or Geometry	Geometry or Algebra II	Geometry or Algebra II	College Algebra*	Pre-Calculus^	4 <sup>th</sup> Year Math	4 <sup>th</sup> Year Math
	Special Topics Adv. W. History	Special Topics Adv. W. History	World History	World History	US History	US History	Government*	Economics^
	IPC	IPC	OnRamps Physics or Chemistry	OnRamps Physics or Chemistry	AP Biology	AP Biology	4 <sup>th</sup> Year Science	4 <sup>th</sup> Year Science
	PE	PE	Health	Solid State Electronics A* (STD36902A)	Digital Electronics AB* (STD37443AB)	Programmable Logic Controller II AB* (TBD: STD03690AB)	Practicum in STEM AB (STH37405AB)	Practicum in STEM AB (STH37405AB)
	Principles of Applied Engineering AB (STH36202AB)	Principles of Applied Engineering AB (STH36202AB)	Robotics I AB* (STD37002AB)	Solid State Electronics A* Double-Block (STD36902A)	Digital Electronics AB* Double-Block (STD37443AB)	Programmable Logic Controller II AB* Double-Block (TBD: STD03690AB)	Basic Fluid Power AB* (MAD03683AB)	Robotics II AB* (STD37003AB)
	Speech*	Art Appreciation*	AC/DC Electronics AB* (STD36802AB)	Solid State Electronics B* (STD36902B)	No Articulation for CETT 1445*	No Articulation for CETT 2435*	No Articulation for RBTC 1447*	Robotics II AB* Double-Block (STD37003AB)
	Spanish I^	Spanish II^	AC/DC Electronics AB* Double-block (STD36802AB)	Solid State Electronics B* Double-Block (STD36902B)	No Articulation for CETT 1445* Double-Block	No Articulation for CETT 2435* Double-Block	No Articulation for RBTC 1447* Double-Block	No Articulation for ELMT 2337*
<b>DC College</b>	SPCH 1321	ARTS 1301	<b>RBTC 1351</b>	<b>RBTC 1401</b>	<b>CETT 1449</b>	<b>ELPT 2455</b>	<b>HYDR 1345</b>	<b>RBTC 2445</b>
	^SPAN 1411	^SPAN 1412	<b>CETT 1409</b>	<b>CETT 1441</b>	CETT 1445	CETT 2435	RBTC 1447	ELMT 2337
					ENGL 1301	^ENGL 1302	GOVT 2305	^ECON 2301
					MATH 1314	^MATH 2412		
<b>Hrs.</b>	Up to 7	Up to 7	Up to 7	Up to 8	Up to 14	Up to 15	Up to 10	Up to 10
<b>Degree:</b> AAS Robotics and Automation: 60+ hours								
<b>College Level Certification:</b> Mechatronics Technician, Level 1 Certification: 30 hours								
TSI compliance or TSI waiver will determine if the course is taken as a Dual Credit course for TSI placement courses. Juniors and seniors that are not TSI met will take AP courses in lieu of a dual credit course.								
*Required Dual Credit course to meet Associate Degree requirements								
^Optional Dual Credit course								
Students who complete Principles of Applied Engineering, AC/DC Electronics, Solid State Electronics, and Digital Electronics will have met requirements for the Renewable Energy Program of Study for a STEM endorsement if the math and science requirements are met. This is capped with a Practicum in STEM.								

## COURSE DESCRIPTIONS FOR PTECH AT I.M. TERRELL ACADEMY

<p><b>CAREER PREPARATION I AB (CAREERP1 AB)</b></p> <p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction and are employed for <u>ten hours per week</u> (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>CP01300AB</b></p> <p>12701121</p> <p>Grade level: 11 - 12</p> <p>HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>CAREER PREPARATION II AB (CAREERP2 AB)</b></p> <p>The Career Preparation II course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working <u>ten hours per week</u> (or average of 20 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I course.</p>	<p><b>CP01400AB</b></p> <p>12701122</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Career Preparation I AB</p> <p><i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>CAREER PREPARATION I/EXTENDED I AB (EXCAREE1 AB)</b></p> <p>This course is a paid capstone experience for students who have found employment for the school year. Career Preparation I/Extended provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with paid business and industry employment experiences. It supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any paid learning experience course. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, are scheduled for 1 (one) class period of instruction, and are employed for <u>fifteen hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan.</p>	<p><b>CP01302AB</b></p> <p>12701305</p> <p>Grade level: 11-12</p> <p>HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> None</p> <p><i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>CAREER PREPARATION II/EXTENDED (EXCAREE2 AB)</b></p> <p>The Career Preparation I/Extended course is for those students who are taking a Career Preparation course for the second time and continue or have new employment during the duration of the course; working fifteen hours per week (or average of 30 hours across two weeks). This course provides the same opportunities and requirements as the Career Preparation I/Extended course.</p>	<p><b>CP01402AB</b></p> <p>12701141</p> <p>Grade level: 12</p> <p>HS Credit(s): 3</p>
<p><u>Instructional Material:</u> Contact Career and Technical Education Department for related materials</p> <p><u>Prerequisite(s):</u> Career Preparation I</p> <p><i>Offered at: All high school campuses</i></p>	<p>College Hour(s): NA</p> <p><b>Tier III</b></p>
<p><b>HONORS UNPAID PRACTICUM IN STEM/d AB (PRACSTEM AB/H)</b></p> <p>This practicum course is an unpaid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In addition, students in this honors course will complete a project using the five phases of project management used in the business and industry environment. Practicum capstone experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, assistantships, mentorships, or laboratories. The various in-class capstone experiences include students working in a simulated environment, running an enterprise, or be involved in program-specific local projects the school has approved for this class. Additional</p>	<p><b>STH37402AB</b></p> <p>13037400</p> <p>Grade level: 12</p> <p>HS Credit(s): 2</p>

capstone experiences also include students being selected to be a part of a work-based experience or industry training off-site, outside of school. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Two credits from a combination of STEM courses <i>Offered only at: I.M. Terrell</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM/EXTENDED AB (EXPRSTEM1 AB/H)</b>	<b>STH37405AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for <u>fifteen (15) hours per week</u> (or average of 30 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037405 Grade level: 12
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Two credits from a combination of STEM courses <i>Offered only at: I.M. Terrell</i>	HS Credit(s): 3 College Hour(s): NA <b>Tier II</b>
<b>HONORS PAID PRACTICUM IN STEM AB (PRACSTEM AB/H)</b>	<b>STH37409AB</b>
This practicum course is a paid capstone experience for students participating in a coherent sequence of career and technical education courses within their designated program of study. This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. A student must be a minimum age of 16 and hold valid work documentation, such as a Social Security card, to enroll in any of the practicum learning experiences. In order to receive course credit, this course requires that students make a full year commitment to this course and their employment, must have related classroom instruction that averages one class period per week during the school year, are employed for ten (10) hours per week (or average of 20 hours across two weeks) at an approved site within ten days of the beginning of the course. Work hours can be included during the school day or outside of school hours. If work hours are during the school day, students can be scheduled for work release (noncredit) periods to work as long as work release does not jeopardize students' projected graduation plan. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13037400 Grade level: 12 HS Credit(s): 2
<u>Instructional Material:</u> Contact Career and Technical Education Director for related materials <u>Prerequisite(s):</u> Two credits from a combination of STEM courses <i>Offered only at: I.M. Terrell</i>	College Hour(s): NA <b>Tier II</b>
<b>HONORS PRINCIPLES OF APPLIED ENGINEERING AB (PRAPPENG AB/H)</b>	<b>STH36202AB</b>
Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments. In addition to the regular course curriculum, students in the honors course will complete additional projects and activities related to the program of study.	13036200 Grade level: 9
<u>Instructional Material:</u> Principles of Applied Engineering, Texas Edition Reid, et al. 2017, Pearson Education <u>Prerequisite(s):</u> None <i>Offered only at: I.M. Terrell</i>	HS Credit(s): 1 College Hour(s): NA <b>Tier II</b>
<b>DUAL CREDIT ROBOTICS I AB (ROBOT 1AB DC)</b> <b>TCC Course: (RBTC 1351) Robotics Mechanisms</b> <i>*Courses may change due to availability</i>	<b>STD37002AB</b>
In this course, students learn the application of principles and the calculation of practical problems involving four bar linkages, cams, gears, and gear trains. Topics include vector quantities, angular displacement, motion concepts, velocities, and motions.	13037000 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> MATH 1332 <i>Offered only at: I.M. Terrell</i>	College Hour(s): 3 <b>Tier I</b>

<b>DUAL CREDIT AC/DC ELECTRONICS AB (ACDCELEC AB DC)</b> <b>TCC Course: (CETT 1409) DC-AC Circuits</b> <i>*Courses may change due to availability</i>	<b>STD36802AB</b>
In this course, students learn the fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Emphasis on circuit simulation using PSpice. Course includes soldering techniques, hand tools, circuit fabrication techniques, troubleshooting techniques and circuit analysis using Mathcad.	13036800 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> TSI Met in Algebraic Math pathway <i>Offered only at: I.M. Terrell</i>	College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT SOLID STATE ELECTRONICS A (SOSTELEC A DC)</b> <b>TCC Course: (RBTC 1401) Programmable Logic Controllers</b> <i>*Courses may change due to availability</i>	<b>STD36902A</b>
In this course, students will learn about programmable logic controllers (PLC). Topics include processor units, USER numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming.	13036900 Grade level: 10-12 HS Credit(s): 0.5
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Offered only at: I.M. Terrell</i>	College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT SOLID STATE ELECTRONICS B (SOSTELEC B DC)</b> <b>TCC Course: (CETT 1441) Solid State Circuits</b> <i>*Courses may change due to availability</i>	<b>STD36902B</b>
In this course, students study various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.	13036900 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> Solid State Electronics A <u>TCC Prerequisite(s):</u> CETT 1409 and TSI Met in Algebraic Math pathway <i>Offered only at: I.M. Terrell</i>	HS Credit(s): 0.5 College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT DIGITAL ELECTRONICS AB (DIGELC DC AB)</b> <b>TCC Course: (CETT 1449) Digital Systems</b> <i>*Courses may change due to availability</i>	<b>STD37443AB</b>
In this course, students will learn about electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counters, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits.	13037600 Grade level: 10-12 HS Credit(s): 1
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> TSI Met in Algebraic Math pathway <i>Offered only at: I.M. Terrell</i>	College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT PROGRAMMABLE LOGIC CONTROLLER II AB (TBD: PROLGCNT2 AB DC)</b> <b>TCC Course: (ELPT 2445) Programmable Logic Control II</b> <i>*Courses may change due to availability</i>	<b>TBD: STD03690AB</b>
In this course, students will learn advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls.	N1303690 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Offered only at: I.M. Terrell</i>	HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>
<b>DUAL CREDIT BASIC FLUID POWER AB (BASICFP AB DC)</b> <b>TCC Course: (HYDR 1345) Hydraulics and Pneumatics</b> <i>*Courses may change due to availability</i>	<b>MAD03683AB</b>
In this course, students learn the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.	N1303683 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> None <u>TCC Prerequisite(s):</u> None <i>Offered only at: I.M. Terrell</i>	HS Credit(s): 1 College Hour(s): 3 <b>Tier I</b>
<b>DUAL CREDIT ROBOTICS II AB (ROBOTIC 2AB DC)</b> <b>TCC Course: (RBTC 2445) Robot Application, Set-up, and Testing</b> <i>*Courses may change due to availability</i>	<b>STD37003AB</b>
In this course, students engage in a capstone course that provides the student with laboratory experience in the installation, set-up, and testing of robotic cells. Topics include maintenance.	13037050 Grade level: 10-12
<u>Instructional Material:</u> Contact the Office of Innovation, Early College Programs Department for related materials <u>Prerequisite(s):</u> Robotics II <u>TCC Prerequisite(s):</u> None <i>Offered only at: I.M. Terrell</i>	HS Credit(s): 1 College Hour(s): 4 <b>Tier I</b>



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# **OTHER ELECTIVES**

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# Other High School Electives & Late Arrival, Early Dismissal and Enrichment Codes

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Additional electives can be found in the individual department sections.

See the Career & Technical Education (CTE) section for further information about CTE and Technology Applications elective courses that can be taken independently or as part of a Programs of Study pathway.

## Other Electives - Local Credit Only

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<p><b>OFFICE ASSISTANT I AB (OFFASST1 AB)</b></p> <p>Course offers students experiences in correct procedures for handling office situations. Provides opportunity for students to learn and practice skills and procedures necessary for greeting visitors, answering the telephone, business, ethics, and filing. This course does not provide any credits that count toward graduation.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> None  <i>Local credit only</i></p>	<p><b>2525 AB</b></p> <p>NA</p> <p>Grade level: 11 - 12            HS Credit(s): 0</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>STUDENT ASSISTANT SERVICES I AB (STUASST1 AB)</b></p> <p>Provides one period per day when students work as teacher assistants. This course does not provide any credits that count toward graduation.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> None  <i>Local credit only</i></p>	<p><b>2535 AB</b></p> <p>NA</p> <p>Grade level: 11 - 12            HS Credit(s): 0</p> <p>College Hour(s): NA  <b>Tier III</b></p>
<p><b>ON COLLEGE CAMPUS AB</b></p> <p>For students who are on a college campus during the school day. This course does not provide any credits that count toward graduation.</p> <p><u>Instructional Material:</u> NA  <u>Prerequisites:</u> None  <i>Local credit only</i></p>	<p><b>0530 AB</b></p> <p>NA</p> <p>Grade level: 10 - 12            HS Credit(s): 0</p> <p>College Hour(s): NA  <b>Tier III</b></p>

# Late Arrival / Early Dismissal / Enrichment Codes

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Completion of these courses **does not** earn state or local credit and they **are not** listed on the student's transcript.

## Late Arrival Codes

0531A	Late Arrival 1A
0531B	Late Arrival 1B
0531AB	Late Arrival 1AB
0535A	Late Arrival 5A
0535B	Late Arrival 5B
0535AB	Late Arrival 5AB
0536A	Late Arrival 6A
0536B	Late Arrival 6B
0536AB	Late Arrival 6AB

## High School Enrichment Codes

0589A	HS Enrich A
0589B	HS Enrich B
0589AB	HS Enrich AB

## Early Dismissal Codes

0534A	Early Dismissal 4A
0534B	Early Dismissal 4B
0534AB	Early Dismissal 4AB
05355A	Early Dismissal 5A
05355B	Early Dismissal 5B
05355AB	Early Dismissal 5AB
0557A	Early Dismissal 7A
0557B	Early Dismissal 7B
0557AB	Early Dismissal 7AB
0558A	Early Dismissal 8A
0558B	Early Dismissal 8B
0558AB	Early Dismissal 8AB
0559A	Early Dismissal 9A
0559B	Early Dismissal 9B
0599AB	Early Dismissal 9AB
0560A	Early Dismissal 10A
0560B	Early Dismissal 10B
0560AB	Early Dismissal 10AB

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***HEALTH & PHYSICAL  
EDUCATION***

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# HEALTH / PHYSICAL EDUCATION GRADUATION REQUIREMENTS

ALL HS STUDENTS ARE REQUIRED to take ONE credit of Physical Education and 1/2 credit of Health Education

## FOUNDATION PLANS

### All Foundation Plans (22 & 26 credits) Require

#### Health Education (1/2 credit)

- Health (.5 credit)
- Principles of Health Science **OR**
- Honors Principles of Health Science (1 credit) *part of Health Science program of study*  
**OR**
- Dual Credit Health (Early College HS)

#### Physical Education (1 credit)

- Lifetime Fitness and Wellness Pursuits (1 credit)
- Lifetime Recreation and Outdoor Pursuits (1 credit)
- Skill-Based Lifetime Activities (1 credit)
- Dual Credit PE (Early College HS) (1 credit)

**A Student** who is **unable** to comply with all requirements of a physical education course because of a **physical limitation** (as certified by a licensed medical practitioner) is not prohibited from earning a diploma. Modifications will be provided as needed for students with special needs or disabilities.

#### PE Substitution Courses may be permitted in any of the following, earning up to one credit.

- Drill Team
- Marching Band
- Cheerleading
- JROTC

#### TEKS Based Courses that may be used to earn up to one PE credit.

- Show Choir II
- Principles of Dance II
- Technical Theatre II
- Musical Theatre II
- Colorguard

#### PE Substitution Courses may be permitted in any of the following, earning up to four credits.

- Athletics / UIL Athletics
- Approved private program  
*(must be pre-approved by the Director of PE)*

## Health and Physical Education

*The Texas Education Code, (TEC) 38.101, requires the District to test the physical fitness of students enrolled in grades 3-12 in any course that satisfies the curriculum requirements for physical education on an annual basis. This includes all courses that qualify as Physical Education substitutions. Additionally, TEC 38.103 requires the District to provide the results of individual student performance on the physical fitness assessment to the Texas Education Agency. The annual fitness assessment requirement is coordinated by the FWISD Department of Health and Physical Education.*

### HEALTH I

Provides students with the knowledge and skills to develop and sustain health-promoting behaviors. Students will learn functional health information, analyze personal values and beliefs that support healthy behaviors, and develop essential health skills necessary to adopt, practice, and maintain health-enhancing behaviors. Instruction also addresses the identified health-risk behaviors contributing to the leading causes of death in the US; unintentional injuries and violence, sexual behaviors, alcohol and other drug use, tobacco use, unhealthy dietary behaviors, and inadequate physical activity.

Instructional Material: *HealthSmart, ETR*

Prerequisites: None

*Health I is required of all students.*

### 5001 T

03810100  
Grade level: 9 - 10  
HS Credit(s): 0.5

College Hour(s): N/A

**Tier III**

<b>HEALTH II</b>	<b>5003 T</b>
This course will provide students opportunities for researching, discussing, and analyzing health issues. The emphasis will be to provide students with the skills to access their own health information and services and become health literate. The work will be student-directed and project-based.	03810300 Grade level: 10 – 12 HS Credit(s): 0.5
<u>Instructional Material:</u> <i>Contact Content Director</i>	College Hour(s): N/A
<u>Prerequisites:</u> Health I	<b>Tier III</b>
<b>LIFETIME FITNESS AND WELLNESS PURSUITS A</b>	<b>5052 A</b>
The Lifetime Fitness and Wellness Pursuits (LFWP) course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. Students in LFWP will apply the knowledge, skills, and value for demonstrating mastery of the concepts needed to achieve lifetime wellness. Course A during the <b>Fall</b> semester includes topics such as: physiological and biomechanical principles to improve health-related fitness; interval, HIIT, and functional fitness; various fitness-related activities to support lifelong participation and value for personal health-related fitness.	PES00051 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): N/A
<u>Instructional Material:</u> <i>Human Kinetics</i>	<b>Tier III</b>
<u>Prerequisites:</u> None	
<b>LIFETIME FITNESS AND WELLNESS PURSUITS B</b>	<b>5052 B</b>
The Lifetime Fitness and Wellness Pursuits (LFWP) course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. Students in LFWP will apply the knowledge, skills, and value for demonstrating mastery of the concepts needed to achieve lifetime wellness. Course B during the <b>Spring</b> semester includes topics such as: various group fitness activities to support social and emotional health; personal fitness and health practice planning; and appropriate training and recovery practices to physical activity participation safety.	PES00051 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): N/A
<u>Instructional Material:</u> <i>Human Kinetics</i>	<b>Tier III</b>
<u>Prerequisites:</u> None	
<b>LIFETIME RECREATION AND OUTDOOR PURSUITS A</b>	<b>5053 A</b>
The Lifetime Recreation and Outdoor Pursuits (LROP) course Part A, during the <b>Fall</b> semester, provides opportunities for students to develop competency in 3 or more lifetime recreational and outdoor pursuits to include: adventure activities, backpacking, camping, hiking, and navigation sporting activities. Additionally, students enrolled in LROP will participate in activities that promote physical literacy while developing appreciation and respect for nature and enjoyment in the outdoors.	PES00053 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): N/A
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> None	
<b>LIFETIME RECREATION AND OUTDOOR PURSUITS B</b>	<b>5053 B</b>
The Lifetime Recreation and Outdoor Pursuits (LROP) course Part B, during the <b>Spring</b> semester, provides opportunities for students to develop competency in 3 or more lifetime recreational and outdoor pursuits to include: water sports, angler education, archery, outdoor survival and safety, adventure activities, cycling, skating, and lawn games. Additionally, students enrolled in LROP will participate in activities that promote physical literacy while developing appreciation and respect for nature and enjoyment in the outdoors.	PES00053 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): N/A
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> None	
<b>SKILL-BASED LIFETIME ACTIVITIES A</b>	<b>5057 A</b>
The Skill-Based Lifetime Activities (SBLA) course Part A, during the <b>Fall</b> semester, offers students the opportunity to demonstrate mastery in basic sport skills, sport knowledge, and health and fitness principles through non-traditional team and individual sports. Students will experience activities that promote physical literacy and lifetime wellness while participating in in at least one activity from each of the following categories: target games; striking and fielding games; fitness activities; rhythmic fitness; and innovative/non-traditional games.	PES00057 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): NA
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> None	
<b>SKILL-BASED LIFETIME ACTIVITIES B</b>	<b>5057 B</b>
The Skill-Based Lifetime Activities (SBLA) course Part B, during the <b>Spring</b> semester, offers students the opportunity to demonstrate mastery in basic sport skills, sport knowledge, and health and fitness principles through non-traditional team and individual sports. Students will experience activities that promote physical literacy and lifetime wellness while participating in in at least one activity from each of the following categories: target games; striking and fielding games; fitness activities; rhythmic fitness; and innovative/non-traditional games.	PES00057 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): N/A
<u>Instructional Material:</u> <i>Contact Content Director</i>	<b>Tier III</b>
<u>Prerequisites:</u> None	
<b>CARE AND PREVENTION OF SPORTS-RELATED INJURIES T</b>	<b>5193 T</b>
Students in this course are expected to gain knowledge of sports training procedures.	N/A Grade level: 10 - 12
<u>Instructional Material:</u> <i>No state-adopted instructional material(s)/Local credit only/Contact Athletic Director</i>	HS Credit(s): 0.5
<u>Prerequisites:</u> None	College Hour(s): N/A
<i>Local Credit Only</i>	<b>Tier III</b>

<b>DUAL CREDIT HEALTH EDUCATION T</b>	<b>5002 T</b>
<b>TCC Course: Personal and Community Health (KINE 1304)</b>	
This course provides an introduction to the fundamentals, concepts, strategies, applications, and contemporary trends related to understanding personal and/or community health issues. This course also focuses on empowering various populations with the ability to practice healthy living, promote healthy lifestyles, and enhance individual well-being.	03810100 Grade level: 9 - 12 HS Credit(s): 0.5 College Hour(s): 3 hours
<u>Instructional Material:</u> NA	<b>Tier I</b>
<u>FWISD Prerequisites:</u> Taken in sequence	
<u>TCC Prerequisites:</u> None	
<i>Course taught by an approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME FITNESS AND WELLNESS PURSUITS T</b>	<b>5058 T</b>
<b>TCC Course: Introduction to Physical Fitness and Wellness (KINE 1164)</b>	PES00051
This course will provide an overview of the lifestyle necessary for fitness and health. Students will participate in physical activities and assess their fitness status. Students will be introduced to proper nutrition, weight management, cardiovascular health, flexibility, and strength training. Includes:	Grade level: 9 - 12 HS Credit(s): 1.0 College Hour(s): 1 hour
1. Scientific information concerning values and preventive medical benefits of exercise.	<b>Tier I</b>
2. Individual (personal) evaluations and experiments to determine present health fitness status.	
3. Development of a personal exercise program based on student's needs.	
<u>Instructional Material:</u> NA	
<u>FWISD &amp; TCC Prerequisites:</u> None	
<i>Course taught by and approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME FITNESS AND WELLNESS PURSUITS T</b>	<b>5070 T</b>
<b>TCC Course: Aerobic Fitness – Beginning (KINE 1102)</b>	PES00051
Improves cardiovascular fitness, muscular endurance/strength, flexibility, and body composition. (Course is coeducational)	Grade level: 9 – 12 HS Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 1 hour
<u>FWISD Prerequisites:</u> None	<b>Tier I</b>
<u>TCC Prerequisites:</u> None	
<i>Course taught by and approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME FITNESS AND WELLNESS PURSUITS T</b>	<b>5041 T</b>
<b>TCC Course: Swimming – Beginning (KINE 1122)</b>	PES00051
Develops good swimming technique, improves cardiovascular fitness level, and teaches water safety skills. (Course is coeducational)	Grade level: 9 – 12 HS Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 1 hour
<u>FWISD &amp; TCC Prerequisites:</u> None	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME RECREATION AND OUTDOOR PURSUITS T</b>	<b>5042 T</b>
<b>TCC Course: Recreational Sports – Beginning (KINE 1116)</b>	PES00053
Develops and improves basic skills, strategies and rules of various recreational sports. (Course is coeducational).	Grade level: 9 – 12 HS Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 1 hour
<u>FWISD &amp; TCC Prerequisites:</u> None	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME RECREATION AND OUTDOOR PURSUITS T</b>	<b>5043 T</b>
<b>TCC Course: Golf – Beginning (KINE 1111)</b>	PES00053
Develops and improves individual skills, and the understanding of the rules of golf. (Course is coeducational)	Grade level: 9 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 1 hour
<u>FWISD &amp; TCC Prerequisites:</u> None	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME FITNESS AND WELLNESS PURSUITS T</b>	<b>5044 T</b>
<b>TCC Course: Yoga – Beginning (KINE 1134)</b>	PES00051
Improves flexibility, muscular endurance/strength and mental well-being. (Course is coeducational)	Grade level: 9 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 1 hour
<u>FWISD &amp; TCC Prerequisites:</u> None	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor.</i>	
<b>DUAL CREDIT LIFETIME RECREATION AND OUTDOOR PURSUITS T</b>	<b>5072 T</b>
<b>TCC Course: Bowling – Beginning (KINE 1104)</b>	PES00053
Develops the basic skills necessary to enjoy the lifetime sport of bowling. (Course is coeducational)	Grade level: 9 - 12 HS Credit(s): 0.5
<u>Instructional Material:</u> NA	College Hour(s): 1 hour
<u>FWISD &amp; TCC Prerequisites:</u> None	<b>Tier I</b>
<i>Course taught by an approved adjunct instructor.</i>	

<b>DUAL CREDIT LIFETIME FITNESS AND WELLNESS PURSUITS T</b> <b>TCC Course: Kickboxing – Beginning (KINE 1113)</b> Improves cardiovascular fitness, muscular endurance/strength, flexibility, and body composition. (Course is coeducational) <i>Instructional Material: NA</i> <i>FWISD &amp; TCC Prerequisites: None</i> <i>Course taught by an approved adjunct instructor.</i>	<b>5074 T</b> PES00051 Grade level: 9 – 12 HS Credit(s): 0.5 College Hour(s): 1 hour <b>Tier I</b>
<b>DUAL CREDIT LIFETIME RECREATION AND OUTDOOR PURSUITS</b> <b>TCC Course: Recreational Sports - Beginning (KINE 1116)</b> Instruction and participation in physical and recreational activities. Develops and improves basic skills, strategies, and rules of various recreational sports. (Course is coeducational) <i>Instructional Material: NA</i> <i>FWISD &amp; TCC Prerequisites: None</i> <i>Course taught by an approved adjunct instructor.</i>	<b>5042 T</b> PES00053 Grade level: 9 – 12 HS Credit(s): 0.5 College Hour(s): 1 hour <b>Tier I</b>

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### **Fort Worth ISD Athletics State Elective or Local Credit Option**

The State of Texas requires one year of physical education (PE) for graduation and allows up to four years/four credits of Physical Education/Athletics to count as state graduation credits. When an Athletics course is selected by the student, the student needs to be aware of the various options he/she has in how the credit will be used.

***When selecting courses, pay close attention to the course numbers selected. For the same named course, one set of course numbers are used to count the course as a state credit and another set of course numbers is used to have the course count as a local credit.***

#### **Understanding the Results of the Options Selected:**

- 1) **The first year taking an athletic course** will automatically count as a PE substitution unless the student has already satisfied or is currently taking another course that will count as a full credit PE substitution; such as JROTC, Drill Team, Cheerleading, or a Marching Band course coded as a PE substitution or a District-approved off-campus activity substitution.
- 2) **When the one credit is already satisfied** or the student is also currently scheduled/taking a qualified PE substitution course, the student has the option of choosing how he/she wants the additional athletic course to count. The student is to select the desired option at the time of creating the course schedule.
  - **Option 1 - Athletic Course State Credit Option:** Athletics courses taken beyond the one course required for the PE substitution will count toward the number of course electives needed for graduation (up to 3 athletics elective credits may be used toward graduation and will be calculated into the student's GPA).
  - **Option 2 - Athletic Course Local Credit Option:** When students are either scheduled for/or have completed taking a PE course/PE substitution, any athletics course beyond the requirement may be taken for local credit. The local credit course will not count toward the number of elective credits needed for graduation, and the grades earned as a local credit will not be calculated into the student's GPA. Students/Parents must sign a ***FWISD Athletics State Elective – Local Credit Option form*** one time to have the student's athletic courses count as local credits. *See the school counselor for this form.*

#### **As students develop their high school schedules, they need to be aware of the manner in which:**

- **athletic courses,**
- **physical education courses, and**
- **physical education substitution courses will:**
  - (1) be credited toward their graduation requirements and**
  - (2) impact Grade Point Average.**



**Physical Education Substitutions**

The substitution activities for athletics and private or commercially-sponsored physical activity programs may be awarded up to four PE credits toward graduation, one for the required physical education credit and three additional PE credits as state elective credits.

**ATHLETICS**

**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes	PEIMS #	NO.	COURSE TITLE	SHORT TITLE
PE Substitution Athletics 1 (SUBATH1) (1/2 -1 Credit)	PES00000	5401A	Competitive Athletics IA	ATHLETIC1A
		5401B	Competitive Athletics IB	ATHLETIC1B
PE Substitution Athletics 2 (SUBATH2) (1/2 -1 Credit)	PES00001	5403A	Competitive Athletics IIA	ATHLETIC2A
		5403B	Competitive Athletics IIB	ATHLETIC2B
PE Substitution Athletics 3 (SUBATH3) (1/2 -1 Credit)	PES00002	5405A	Competitive Athletics IIIA	ATHLETIC3A
		5405B	Competitive Athletics IIIB	ATHLETIC3B
PE Substitution Athletics 4 (SUBATH4) (1/2 -1 Credit)	PES00003	5407A	Competitive Athletics IVA	ATHLETIC4A
		5407B	Competitive Athletics IVB	ATHLETIC4B

**Prerequisite:** Student is required approval from head coach for placement into a specific sport course. In addition, student is required to complete the UIL Pre-Participation Evaluation – Medical History form and the UIL Pre-Participation Evaluation-Physical Examination form before participation in any practice before, during, or after school. Fort Worth ISD requires the completion of seven (7) Fort Worth ISD/UIL Pre-Participation forms before participating in athletic class. Forms must be complete before the tenth day of the new school year.

**Grade Placement:** 9 - 12

**Credit:** .5 – 4

Provides instruction and practice for members of competitive athletics teams. **Athletics may be awarded up to four credits toward graduation, one for the required physical education credit and three additional credits as state electives.**

**ATHLETIC SPORTS FOR STATE GRADUATION CREDIT**

Student enrolling in the following athletic sports will receive state graduation credit which will be credited in the following way: one for PE substitution and three for elective credits, up to a total of four graduation credits. All of these courses will count in the calculation of the student’s grade point average (GPA) as a Tier III course. These courses will also count as credit toward graduation requirements. Students may not change their schedules after the 10th day class period ends without a penalty.

FWISD NO.	TEAM SPORT		FWISD NO.	TEAM SPORT
BBK12	Boys Basketball 1AB		GBK12	Girls Basketball 1AB
BBK22	Boys Basketball 2AB		GBK22	Girls Basketball 2AB
BBK32	Boys Basketball 3AB		GBK32	Girls Basketball 3AB
BBK42	Boys Basketball 4AB		GBK42	Girls Basketball 4AB
FWISD NO.	TEAM SPORT		FWISD NO.	TEAM SPORT
BSC12	Boys Soccer 1AB		GSC12	Girls Soccer 1AB
BSC22	Boys Soccer 2AB		GSC22	Girls Soccer 2AB
BSC32	Boys Soccer 3AB		GSC32	Girls Soccer 3AB
BSC42	Boys Soccer 4AB		GSC42	Girls Soccer 4AB

<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BTS12	Boys Tennis 1AB	GTS12	Girls Tennis 1AB
BTS22	Boys Tennis 2AB	GTS22	Girls Tennis 2AB
BTS32	Boys Tennis 3AB	GTS32	Girls Tennis 3AB
BTS42	Boys Tennis 4AB	GTS42	Girls Tennis 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BTK12	Boys Track 1AB	GTK12	Girls Track 1AB
BTK22	Boys Track 2AB	GTK22	Girls Track 2AB
BTK32	Boys Track 3AB	GTK32	Girls Track 3AB
BTK42	Boys Track 4AB	GTK42	Girls Track 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BW12	Boys Wrestling IA	GW12	Girls Wrestling IA
BW22	Boys Wrestling IB	GW22	Girls Wrestling IB
BW32	Boys Wrestling IIA	GW32	Girls Wrestling IIA
BW42	Boys Wrestling IIB	GW42	Girls Wrestling IIB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BB12	Baseball 1AB	CC12	Cross Country 1AB
BB22	Baseball 2AB	CC22	Cross Country 2AB
BB32	Baseball 3AB	CC32	Cross Country 3AB
BB42	Baseball 4AB	CC42	Cross Country 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
FB12	Football 1AB	GF12	Golf 1AB
FB22	Football 2AB	GF22	Golf 2AB
FB32	Football 3AB	GF32	Golf 3AB
FB42	Football 4AB	GF42	Golf 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
SB12	Softball 1AB	SM12	Swimming 1AB
SB22	Softball 2AB	SM22	Swimming 2AB
SB32	Softball 3AB	SM32	Swimming 3AB
SB42	Softball 4AB	SM42	Swimming 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>		
VB12	Volleyball 1AB		
VB22	Volleyball 2AB		
VB32	Volleyball 3AB		
VB42	Volleyball 4AB		

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**ATHLETICS FOR LOCAL CREDIT**

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Before a student may qualify to enroll in any athletics course for local credit, he/she must have completed the required PE credit or the PE substitution credit, or also be enrolled in such a qualifying course. ***Parental approval is required using the FWISD Athletics State Elective – Local Credit Option form for any student to opt out of an athletics state elective credit course to take an athletics course for local credit only. Students may not change their schedules after the 10-day class period ends without a penalty.***

**The following athletics course numbers are to be used when an athletic course is being used as a LOCAL only credit course. As a local credit, these courses will not count toward graduation and they will not count in the calculation of the student's grade point average (GPA).**

<b>Course Coding</b>	<b>PEIMS #</b>	<b>Course Titles</b>
<b>Local Course Athletics 1 (LCATH1) (1/2 -1 Credit)</b>	<b>84200027</b>	<b>5399A— Local Course Competitive Athletics IA (LC ATHLETICS 1A)</b>
		<b>5399B— Local Course Competitive Athletics IB (LC ATHLETICS 1B)</b>
<b>Local Course Athletics 2 (LCATH2) (1/2 -1 Credit)</b>	<b>84200028</b>	<b>5402A— Local Course Competitive Athletics IIA (LC ATHLETICS 2A)</b>
		<b>5402B— Local Course Competitive Athletics IIB (LC ATHLETICS 2B)</b>
<b>Local Course Athletics 3 (LCATH3) (1/2 -1 Credit)</b>	<b>84200029</b>	<b>5404A— Local Course Competitive Athletics IIIA (LC ATHLETICS 3A)</b>
		<b>5404B— Local Course Competitive Athletics IIIB (LC ATHLETICS 3B)</b>
<b>Local Course Athletics 4 (LCATH4) (1/2 -1 Credit)</b>	<b>84200030</b>	<b>5406A— Local Course Competitive Athletics IVA (LC ATHLETICS 4A)</b>
		<b>5406B— Local Course Competitive Athletics IVB (LC ATHLETICS 4B)</b>

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**Athletic Sports for Local Credit**

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**Prerequisite:** Student is required approval from head coach for placement into a specific sport course. In addition, student is required to complete the UIL Pre-Participation Evaluation – Medical History form and the UIL Pre-Participation Evaluation-Physical Examination form before participation in any practice before, during, or after school. Fort Worth ISD requires the completion of seven (7) Fort Worth ISD/UIL Pre-Participation forms before participating in athletic class. Forms must be complete before the tenth day of the new school year.

**Grade Placement: 9 - 12**

**Credit: .5 - 4**

Provides instruction and practice for members of competitive athletics teams.

**The following athletic course section has been created for students who do not want the athletic courses beyond the required PE course or PE substitution to count in their grade point average (GPA) calculations.**

**Athletic Sports Course Numbers for Local Credit Only**

Students enrolling in the following athletic sports courses that are identified with an L at the end of the FWISD number will receive local credit only for each course. These courses will NOT count in the calculation of the student's grade point average (GPA). These local course credits will NOT count toward graduation credit and will not count for the PE substitution requirement for graduation.

<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BBK12L	Boys Basketball 1AB	GBK12L	Girls Basketball 1AB
BBK22L	Boys Basketball 2AB	GBK22L	Girls Basketball 2AB
BBK32L	Boys Basketball 3AB	GBK32L	Girls Basketball 3AB
BBK42L	Boys Basketball 4AB	GBK42L	Girls Basketball 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BSC12L	Boys Soccer 1AB	GSC12L	Girls Soccer 1AB
BSC22L	Boys Soccer 2AB	GSC22L	Girls Soccer 2AB
BSC32L	Boys Soccer 3AB	GSC32L	Girls Soccer 3AB
BSC42L	Boys Soccer 4AB	GSC42L	Girls Soccer 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BTS12L	Boys Tennis 1AB	GTS12L	Girls Tennis 1AB
BTS22L	Boys Tennis 2AB	GTS22L	Girls Tennis 2AB
BTS32L	Boys Tennis 3AB	GTS32L	Girls Tennis 3AB
BTS42L	Boys Tennis 4AB	GTS42L	Girls Tennis 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BTK12L	Boys Track 1AB	GTK12L	Girls Track 1AB
BTK22L	Boys Track 2AB	GTK22L	Girls Track 2AB
BTK32L	Boys Track 3AB	GTK32L	Girls Track 3AB
BTK42L	Boys Track 4AB	GTK42L	Girls Track 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BW12L	Boys Wrestling IA	GW12L	Girls Wrestling IA
BW22L	Boys Wrestling IB	GW22L	Girls Wrestling IB
BW32L	Boys Wrestling IIA	GW32L	Girls Wrestling IIA
BW42L	Boys Wrestling IIB	GW42L	Girls Wrestling IIB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
BB12L	Baseball 1AB	CC12L	Cross Country 1AB
BB22L	Baseball 2AB	CC22L	Cross Country 2AB
BB32L	Baseball 3AB	CC32L	Cross Country 3AB
BB42L	Baseball 4AB	CC42L	Cross Country 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
FB12L	Football 1AB	GF12L	Golf 1AB
FB22L	Football 2AB	GF22L	Golf 2AB
FB32L	Football 3AB	GF32L	Golf 3AB
FB42L	Football 4AB	GF42L	Golf 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>	<b>FWISD NO.</b>	<b>TEAM SPORT</b>
SB12L	Softball 1AB	SM12L	Swimming 1AB
SB22L	Softball 2AB	SM22L	Swimming 2AB
SB32L	Softball 3AB	SM32L	Swimming 3AB
SB42L	Softball 4AB	SM42L	Swimming 4AB
<b>FWISD NO.</b>	<b>TEAM SPORT</b>		
VB12L	Volleyball 1AB		
VB22L	Volleyball 2AB		
VB32L	Volleyball 3AB		
VB42L	Volleyball 4AB		

## Physical Education Substitution Activities

The following substitution activities of drill team, cheerleading, marching band, and JROTC may be awarded one PE substitution credit toward graduation that may satisfy the physical education credit requirement. See substitution charts on the following pages.

### MARCHING BAND SUBSTITUTION

**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

The following PE substitution codes are available.	PE Substitution Marching Band (SUBMB) PEIMS #PES00012 provides ½ credit per semester, up to a total of 1 credit. Fall semesters only
1372A PE Substitution Marching Band Activity (SUBMB1)	
1376A PE Substitution Marching Band (SUBMB2)	

Marching Band may be substituted for ½ credit to 1 credit of physical education. PE substitutions for these courses will not receive a weighted course grade. Only the FINE ARTS Honors Marching Band course numbers/PEIMS numbers will qualify for weighted course grade.

### DRILL TEAM SUBSTITUTION

**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes		LOCAL CREDIT ONLY COURSES																										
The ½ - 1 Drill Team credit to count as a PE substitution is to be coded as follows:		<p>All of the Drill Team course numbers provided directly below are to be used for Drill Team credits that go beyond the total of the 1 credit allowed for as a PE Drill Team substitution. The following Drill Team courses are LOCAL CREDIT ONLY and WILL NOT count toward graduation credit and WILL NOT be calculated in a student's grade point average. Before a student may qualify to enroll in any Drill Team Local Credit Courses, he/she must have completed the required PE credit or PE substitution credit or be enrolled in such a qualifying course.</p> <table border="1"> <tr><td>5391A</td><td>Drill Team IA</td><td>DRILLT1A</td></tr> <tr><td>5392B</td><td>Drill Team IB</td><td>DRILLT1B</td></tr> <tr><td>5393A</td><td>Drill Team IIA</td><td>DRILLT2A</td></tr> <tr><td>5394B</td><td>Drill Team IIB</td><td>DRILLT2B</td></tr> <tr><td>5395A</td><td>Drill Team IIIA</td><td>DRILLT3A</td></tr> <tr><td>5396B</td><td>Drill Team IIIB</td><td>DRILLT3B</td></tr> <tr><td>5397A</td><td>Drill Team IVA</td><td>DRILLT4A</td></tr> <tr><td>5398B</td><td>Drill Team IVB</td><td>DRILLT4B</td></tr> </table>			5391A	Drill Team IA	DRILLT1A	5392B	Drill Team IB	DRILLT1B	5393A	Drill Team IIA	DRILLT2A	5394B	Drill Team IIB	DRILLT2B	5395A	Drill Team IIIA	DRILLT3A	5396B	Drill Team IIIB	DRILLT3B	5397A	Drill Team IVA	DRILLT4A	5398B	Drill Team IVB	DRILLT4B
5391A	Drill Team IA				DRILLT1A																							
5392B	Drill Team IB				DRILLT1B																							
5393A	Drill Team IIA				DRILLT2A																							
5394B	Drill Team IIB				DRILLT2B																							
5395A	Drill Team IIIA				DRILLT3A																							
5396B	Drill Team IIIB				DRILLT3B																							
5397A	Drill Team IVA				DRILLT4A																							
5398B	Drill Team IVB				DRILLT4B																							
Course #	Title																											
5389A/B	PE Substitution Drill Team (SUBDT) PEIMS # PES00014																											
<p>The above PE substitution Drill Team (SUBDT) course <b>WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course.</b> Both fall and spring semesters of Drill Team may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five-day school week.</p>																												

**Grade Placement: 9 - 12**

**Credit: .5 - 1** (PE substitution credit, additional credits count only as local credit.)

Includes training to enable members of the drill team to perform at football games, basketball games, and other school functions. One credit for PE substitution will be available. All Drill Team classes after the one credit PE substitution will only count as a local credit.

**CHEERLEADING SUBSTITUTION**

**NOTE: State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.**

Course Codes		Course Titles			
The ½ - 1 Team Cheerleading credit to count as a PE substitution is to be coded as follows:		<p><i>All of the Team Cheerleading course numbers provided directly below are to be used for Team Cheerleading credits that go beyond the total of the 1 credit allowed as a PE Team Cheerleading substitution. The following Team Cheerleading courses are LOCAL CREDIT ONLY and WILL NOT count toward graduation credit and WILL NOT be calculated in a student's grade point average. Before a student may qualify to enroll in any Team Cheerleading Local Credit Courses, he/she must have completed the required PE credit or PE substitution credit or be enrolled in such a qualifying course.</i></p>			
<b>Course #</b>	<b>Title</b>				
5433A/B	PE Substitution Cheerleading  (SUBCHLDG)  PEIMS # PES00013				
<p><i>The above PE substitution Team Cheerleading (SUBCHLDG) course WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course. Both fall and spring semesters of Team Cheerleading may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five -day school week.</i></p>					
5435A	Cheerleading IA				CHEERLEA1A
5436B	Cheerleading IB				CHEERLEA1B
5437A	Cheerleading IIA				CHEERLEA2A
5438B	Cheerleading IIB				CHEERLEA2B
5439A	Cheerleading IIIA				CHEERLEA3A
5440B	Cheerleading IIIB				CHEERLEA3B
5441A	Cheerleading IVA	CHEERLEA4A			
5442B	Cheerleading IVB	CHEERLEA4B			

**Prerequisite: Cheerleader**

**Grade Placement: 9 – 12**

One credit for PE substitution will be available. All Cheerleading classes after the one credit PE substitution will only count as a local credit. Local credit courses do not count toward graduation credits and are not calculated into GPA.

**JROTC SUBSTITUTION**

**NOTE: State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.**

A student who successfully completes JROTC may receive a substitution of one semester of PE for each semester of JROTC completed, up to one credit. A student can receive credit for a separate PE class while receiving a JROTC elective credit (see JROTC course descriptions section).

**If a student has completed or is enrolled in a separate course that provides for a PE substitution, the student qualifies to enroll in the JROTC1 course number 5949AB which results in ROTC1 on his/her transcript.**

Course number and coding to be used for JROTC to count as a PE substitution		
5951A/B	PE Substitution JROTCI (SUBJ1)	PEIMS # PES00004
Short title on transcript (SUBJ1)		½ credit per semester, up to a total of 1 credit
Course number and coding to be used for JROTC when another course is providing PE substitution credit		
5949A/B	Junior Reserve Officer Training IA/B	PEIMS # 03160100
Short title on transcript ROTC1A/B		1/2 credit per semester, up to 1 credit for ROTC1A/B

**OFF CAMPUS ACTIVITY SUBSTITUTION**

<b>To code all FWISD approved PE off-campus programs, use the designated course title/short title and accompanying PEIMS number.</b>				
<b>Course Number</b>	<b>Course Title</b>	<b>Short Title</b>	<b>Credit(s)</b>	<b>PEIMS #</b>
5409 A/B	PE Substitution Non-District Program 1	SUBPRO1	.5 - 1	PES00008
5411 A/B	PE Substitution Non-District Program 2	SUBPRO2	.5 - 1	PES00009
5413 A/B	PE Substitution Non-District Program 3	SUBPRO3	.5 - 1	PES00010
5415 A/B	PE Substitution Non-District Program 4	SUBPRO4	.5 - 1	PES00011

**OFF CAMPUS ACTIVITY SUBSTITUTION**

**The Fort Worth ISD Physical Education Waiver Program provides an opportunity for students in grades 7-12 to receive credit for participation in an off-campus, athletic/training program. FWISD is authorized by the Texas Education Agency (TEA) to substitute participation in private or commercially sponsored programs for the FWISD middle school physical education requirement (7<sup>th</sup> and 8<sup>th</sup> grades) and the state-required high school physical education graduation credit. The FWISD Health and Physical Education Department must ensure the program, agency, and instructor meet the waiver criteria in order to approve all requests through the application process.**

**DISTRICT-APPROVED OFF-CAMPUS ACTIVITIES**

District-approved off-campus activities may also substitute for required physical education if specific criteria are met, listed in 19 Administrative Code Chapter 74, Subchapter F and EIF (LEGAL) and (LOCAL) policies.

(iii) Appropriate private or commercially-sponsored physical activity programs conducted on or off campus.

The district must apply to the commissioner of education for approval of such programs, which may be substituted for state graduation credit in physical education. Such approval may be granted under the following conditions:

(I) Olympic-level participation and/or competition includes a minimum of 15 hours per week of highly intensive, professional, supervised training. The training facility, instructors, and the activities involved in the program must be certified by the superintendent to be of exceptional quality. Students qualifying and participating at this level may be dismissed from school one hour per day. Students dismissed may not miss any class other than physical education.

(II) Private or commercially-sponsored physical activities include those certified by the superintendent to be of high quality and well supervised by appropriately trained instructors. Students participating in at least five hours per week is required. Students certified to participate at this level may not be dismissed from any part of the regular school day.

The purpose of this program is to accommodate students who are making a serious effort to develop high level capabilities and to allow them to be involved in an off-campus program that provides training exceeding that offered in the school district. The ability to offer this option is regulated by the Texas Education Agency.

All inquiries and applications for this option are to be directed to the Director of the FWISD Health and Physical Education Department. Applications must be submitted prior to Labor Day for the fall semester and by January 15 for the spring semester. A FWISD enrollment fee of \$25.00 will be assessed per semester unless a single payment of \$50.00 for both semesters is made at the beginning of the year. Fees are subject to change. The Director will notify the counselor and parent whether or not the requested off-campus activity has been approved as a physical education substitution. Attendance and grade reporting is made to the counselor every six weeks. The final grade for each semester will be included on the student's transcript and will count in the calculation of the student's grade point average.

**DISTRICT-APPROVED OFF-CAMPUS ACTIVITY SUBSTITUTION**

All of these courses will be calculated into the student's grade point average (GPA) as Tier III courses.

The grade provided is to be a letter grade; the counselor will commute this to a numerical grade using the following letter grade conversion charts.

<b>Letter/Numerical</b>	<b>Letter/Numerical</b>	<b>Letter/Numerical</b>	<b>Letter/Numerical</b>
A+ = 99	B+ = 89	C+ = 79	D = 70
A = 96	B = 86	C = 76	F = 65
A- = 92	B- = 82	C- = 72	

## Additional PE Substitution Credits

Beginning in 2014-2015, for students that are on the Foundation High School Program, the TAC [§74.12 \(b\)\(6\)\(B\)](#), states that in accordance with local district policy, the required credit may be earned through completion of any TEKS-based course that meets the requirement for 100 minutes of moderate to vigorous physical activity per five-day school week and that is not being used to satisfy another specific graduation requirement.

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### SHOW CHOIR II (VOCAL ENSEMBLE II) SUBSTITUTION

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**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes	
The ½ - 1 Show Choir II credit to count as a PE substitution is to be coded as follows:	
Course #	Title
1444PE A/B	<b>PE Substitution Show Choir II</b>  (SUBSHOWCH)  PEIMS # PES00015
<i>The above PE substitution Show Choir II (SUBSHOWCH) course <b>WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course.</b> Both fall and spring semesters of Show Choir II may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five –day school week. Provides ½ credit per semester; up to a total of 1 credit.</i>	

**Prerequisite:** Show Choir I (Vocal Ensemble I)

**Grade Placement:** 9 – 12

**Credit:** .5 - 1 (PE substitution credit)

Introduces students to different musical genres and performance styles that are not typically taught in a classical choral setting. This musical style includes choreography and physical movement, as well as vocal techniques necessary for understanding and appreciating fine musical performances through various styles of literature, such as pop, rock, contemporary a cappella and jazz. Attendance at all performances and rehearsals is required. One credit for PE substitution will be available.

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### PRINCIPLES OF DANCE II SUBSTITUTION

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**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes	
The ½ - 1 Principles of Dance II credit to count as a PE substitution is to be coded as follows:	
Course #	Title
1503PE A/B	<b>PE Substitution Principles of Dance II</b>  (SUBDANCE)  PEIMS # PES00015
<i>The above PE substitution Principles of Dance II (SUBDANCE) course <b>WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course.</b> Both fall and spring semesters of Principles of Dance II may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five –day school week. Provides ½ credit per semester; up to a total of 1 credit.</i>	

**Prerequisite:** Dance, Level I

**Grade Placement:** 9-12

**Credit:** .5 - 1 (PE substitution credit)

Focuses on classical ballet, modern, and multicultural dance, tap, and jazz. Expands students' experience with dance vocabulary, dimensions of creativity, choreography, artistic judgment, and dance in diverse cultures in contemporary society. Attendance at all performances and rehearsals is required. One credit for PE substitution will be available.



## TECHNICAL THEATRE II SUBSTITUTION

**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes	
The ½ - 1 Technical Theatre II credit to count as a PE substitution is to be coded as follows:	
Course #	Title
3754PE A/B	<b>PE Substitution Technical Theatre II</b>  <b>(SUBTECHTH)</b>  <b>PEIMS # PES00015</b>
<i>The above PE substitution Technical Theatre II (SUBTECHTH) course <b>WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course.</b> Both fall and spring semesters of Technical Theatre II may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five –day school week. Provides ½ credit per semester; up to a total of 1 credit.</i>	

**Prerequisite:** Technical Theatre I

**Grade Placement:** 9-12

**Credit:** .5 - 1 (PE substitution credit)

This course provides instruction in a laboratory and practical settings, in makeup, costuming design, set design and construction, lighting and sound design, business and theatre management, and other technical areas needed for theatrical and performing arts productions. Students will climb ladders, adjust lights, etc. as well as handle heavy materials, machinery and tools. Students will be expected to participate in all behind-the-scenes action of productions. Attendance at all performances and rehearsals is required, as well as behind-the-scenes action of productions. One credit for PE substitution will be available.

## MUSICAL THEATRE II SUBSTITUTION

**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes	
The ½ - 1 Musical Theatre II credit to count as a PE substitution is to be coded as follows:	
Course #	Title
1474PE A/B	<b>PE Substitution Musical Theatre II</b>  <b>(SUBMUSICTH)</b>  <b>PEIMS # PES00015</b>
<i>The above PE substitution Musical Theatre II (SUBMUSICTH) course <b>WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course.</b> Both fall and spring semesters of Musical Theatre II may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five –day school week. Provides ½ credit per semester; up to a total of 1 credit.</i>	

**Prerequisite:** Musical Theatre I

**Grade Placement:** 9-12

**Credit:** .5 - 1 (PE substitution credit)

Students will be active in a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of Broadway-style musical theatre.

The course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal technique, stage choreography, acting, characterization, and all other aspects of a musical production. Attendance at all performances and rehearsals is required. One credit for PE substitution will be available.

**COLOR GUARD SUBSTITUTION**

**NOTE:** State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.

Course Codes		Course Titles	
<p>The ½ - 1 Color Guard credit to count as a PE Substitution is to be coded as follows:</p>		<p><b>All of the Color Guard course numbers provided directly below are to be used for Color Guard credits that go beyond the total of the 1 credit allowed as a PE Color Guard substitution. The following Color Guard courses are LOCAL CREDIT ONLY and WILL NOT count toward graduation credit and WILL NOT be calculated in a student's grade point average. Before a student may qualify to enroll in any Color Guard Local Credit Courses, he/she must have completed the required PE credit or PE substitution credit or be enrolled in such a qualifying course.</b></p>	
<b>Course #</b>	<b>Title</b>	<b>Course #</b>	<b>Course Title</b>
<b>9004A/B</b>	<p>PE Substitution Color Guard  (SUBCOLORGD)  PEIMS # PES00012</p>	<b>CLGD1AB</b>	PE EQ1 - Color Guard IAB
		<b>CLGD2AB</b>	PE EQ2 - Color Guard IIAB
		<b>CLGD3AB</b>	PE EQ3 - Color Guard IIIAB
		<b>CLGD4AB</b>	PE EQ4 - Color Guard IVAB
<p>The above PE substitution Color Guard (SUBCOLORGD) course <b>WILL count as a state graduation credit and WILL be calculated into the student's grade point average as a 4.0 course.</b> Both fall and spring semesters of Color Guard may now substitute for PE credit, provided students engage in 100 minutes of "moderate to vigorous activity" per five-day school week.</p>			

**Prerequisite:** Color Guard Member

**Grade Placement:** 9-12

**Credit:** .5 - 1 (PE substitution credit; additional credits count only as local credit)

Students must audition to be accepted in Color Guard. This course deals with learning the basics of Color Guard performance (flag techniques, body movement, and performance skills). This is one of the many sections that make up the marching band that will perform at football games, marching contests, parades, and pep rallies. By taking this course, the student understands that they must attend all rehearsals, performances, and contests that take place outside the school day (regardless of placement). In addition, members will need to attend camps and other rehearsals that may take place during school vacations. After marching season students will participate in winter guard season, learning more comprehensive, in-depth skills while performing indoors. Students will audition for one of several ability-based winter guard groups at the end of the fall semester.

One credit for PE substitution will be available. All Color Guard classes after the one credit PE substitution will only count as a local credit. Local credit courses do not count toward graduation credits and are not calculated into GPA.

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***JUNIOR RESERVE  
OFFICERS  
TRAINING CORPS***

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# JROTC

**JROTC (one to four credits) may be used to count as state graduation elective credit(s). Students may also use JROTC to substitute for the 1 credit of PE which is required for graduation; therefore, two semesters of JROTC will fulfill the 1 PE credit requirement.**

Students entering Grade 9 beginning with school year 2014-2015 and thereafter will be graduating under the Foundation High School Program. This graduation program requires students to complete the required subject courses, plus an endorsement made up of four courses/four credits in the student's area of career or college interest. Courses used to meet the named subject credits required may also be used as courses making up an endorsement. Four levels of JROTC courses (I, II, III, and IV) qualifies as a public service endorsement, meeting the endorsement graduation requirement.

**All ROTC Students may select how they want the JROTC Level IA/B 1 credit course to count toward graduation:**

1. As a PE substitution with the short title on their transcripts of SUBJ1 showing the course meets the 1 credit PE Graduation requirement

OR

2. As a JROTC course credit with the short title of ROTC, AFROTC, or NROTC appearing on the student's transcript for 1 elective credit/no credit for PE. A student using this option has either to have already completed a PE course or PE substitution (such as athletics, marching band, or drill team etc.) or be enrolled in such a PE credited course at the same time as they are enrolled in JROTC.

**NOTE: State law requires that any student who is taking a PE course, or class that substitutes for PE, participate in annual fitness testing.**

<p><b>JUNIOR RESERVE OFFICERS TRAINING I AB (PE SUBSTITUTION)</b>  <b>JUNIOR RESERVE OFFICERS TRAINING I AB (NO PE CREDIT AWARDED)</b></p> <p>(Introduction to Leadership and Citizenship Development) JROTC is a "world-class," student-centered academic, STEM-based leadership program which familiarizes students with the concept of leadership, rights, responsibilities, privileges, and freedoms that underlie good citizenship. Focus on STEM-LEGO and VEX Robotics. Students individually and within teams will engage in hands-on teaching and learning, applying academic content by creatively solving real-world problems with innovative design-based thinking. Students will begin developing appreciation of teamwork through instruction in STEM- LEGO and VEX Robotics, Cybersecurity, Problem Solving, Drill, and wearing of the uniform</p> <p><u>Instructional Material:</u> Student Text &amp; HB Instructor Guide, Curriculum Manager Portable Drive, VEX Robotics/No state-adopted textbook/Contact JROTC Director Web Portal  <u>Prerequisites:</u> 14 years of age</p>	<p><b>5951 AB (PE Substitution) or 5949 AB</b></p> <p>PES000004 (PE Substitution) or 03160100            Grade level: 9 - 12            HS Credit(s): 1</p> <p>College Hour(s): N/A  <b>Tier III</b></p>
<p><b>JUNIOR RESERVE OFFICERS TRAINING II AB</b></p> <p>(Leadership and Citizenship Development) This course is designed with the latest interactive instructional strategies to maximize student engagement and learning. This course improves leadership ability, communications, decision-making, and goal setting through study and practical leadership experience as a cadet noncommissioned officer. Course provides introductory instruction in American military history with emphasis on the origin and role of the U.S. Army (JROTC), U.S. Air Force (AFJROTC), or U.S. Navy (NJROTC). Students will participate in service learning (community service) activities. Course enhances social and ethical values, and introduces physical conditioning, proper diet and nutrition.</p> <p><u>Instructional Material:</u> Student Text &amp; HB Instructor Guide, Curriculum Manager Portable Drive, VEX Robotics/No state-adopted textbook/Contact JROTC Director Web Portal  <u>Prerequisites:</u> JROTC I</p>	<p><b>5953 AB</b></p> <p>03160200            Grade level: 10 - 12            HS Credit(s): 1            College Hour(s): N/A  <b>Tier III</b></p>
<p><b>JUNIOR RESERVE OFFICERS TRAINING III AB</b></p> <p>(Applied Leadership Development) This course improves leadership ability through study and practical leadership experience as a cadet officer in the JROTC. Course provides practical experience in applying leadership assessment principles, training and supervising subordinates, communications, service learning and problem solving. Cadets complete DL courses: Conflict Resolution, Time Management, Improving Writing Skills, Test Taking, Internet Safety, and First Aid. Continues instruction in military history as it relates to American culture and the future.</p> <p><u>Instructional Material:</u> Student Text &amp; HB Instructor Guide, Curriculum Manager Portable Drive, VEX Robotics/No state-adopted textbook/Contact JROTC Director Web Portal  <u>Prerequisites:</u> JROTC I</p>	<p><b>5955 AB</b></p> <p>03160300            Grade level: 11 - 12            HS Credit(s): 1            College Hour(s): N/A  <b>Tier III</b></p>

<b>HONORS JUNIOR RESERVE OFFICERS TRAINING III AB</b>	<b>5958 AB</b>
The honors course is designed to provide mid-level staff and primary cadet leaders the opportunity for applying advanced academic leadership and management skills, using proven and creative techniques, while employing multiple intelligences and learning strategies to maximize individual potential. Honors cadets will be challenged by the daily rigors of program requirements necessary to ensure highly successful ratings in all functional areas during inspections. Further leadership development via involvement in Team competitions, Peer Mentorship, Adopt-a-School programs. Moreover, developing techniques to integrate STEM learning, STEM research and engineering projects with leadership, creativity and teamwork.	03160300 Grade level: 11 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b>
<u>Instructional Material:</u> <i>Student Text &amp; HB Instructor Guide, Curriculum Manager Portable Drive, VEX Robotics/No state-adopted textbook/Contact JROTC Director Web Portal</i> <u>Prerequisites:</u> JROTC I and II	
<b>JUNIOR RESERVE OFFICERS TRAINING IV AB</b>	<b>5957 AB</b>
(Advanced Leadership Development) Course provides students with advanced leadership and instructional experiences while allowing them to serve as senior cadet commanders and staff officers. Emphasis is on effective application of training management, planning management, leadership and communication skills, ethical reasoning, office administration, and decision-making in an assigned command or staff position. Applied service learning (community service projects) involves developing a concept, planning, resourcing, and leading a service project. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long-range life goals. Students will lead major competitions, activities, and external inspections. At Arlington Heights High School, the NJROTC enters advanced naval operations, intelligence, communications, seamanship, and applied staff and command.	03160400 Grade level: 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier III</b>
<u>Instructional Material:</u> <i>Student Text &amp; HB Instructor Guide, Curriculum Manager Portable Drive, VEX Robotics/No state-adopted textbook/Contact JROTC Director Web Portal</i> <u>Prerequisites:</u> JROTC III	
<b>HONORS JUNIOR RESERVE OFFICERS TRAINING IV AB</b>	<b>5959 AB</b>
This honors course is designed to provide senior-level and primary cadet leaders the opportunity for applying advanced academic supervisory leadership and management skills, using proven and creative techniques while employing multiple intelligences and learning strategies. Cadets complete DL courses, Conflict Resolution, Time Management, Improving Writing Skills, Test Taking, Internet Safety, and First Aid. Cadets are eligible to enroll in courses for college credits. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long-range life goals. Honors cadets will apply rigorous practical decision-making techniques to resolve a myriad of complex situations, requiring exceptional leadership, citizenship, and management skills in complex situations throughout the evaluation period. This will ensure highly successful ratings in all functional areas during inspections.	03160400 Grade level: 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b>
<u>Instructional Material:</u> <i>Student Text &amp; HB Instructor Guide, Curriculum Manager Portable Drive, VEX Robotics/No state-adopted textbook/Contact JROTC Director Web Portal</i> <u>Prerequisites:</u> JROTC II and III	
<b>HONORS UNITED STATES MILITARY HISTORY AB SPECIAL TOPICS IN SOCIAL STUDIES</b>	<b>5975 AB 5975 AB 5978 AB</b>
This course presents a comprehensive U. S. Military History review, providing students an awareness of responsible leadership roles of men and women in past and present history. Students will gain an understanding of U.S. military history and strategy from an intellectual, social, economic and political perspective. Students will apply critical-thinking skills to understand the impact of geographic factors, current world events and the role of diplomacy from the perspective of both scholars and from the perspective of those who have fought our wars. Cadet leaders are provided the opportunity to participate in world affairs discussions and seminars, staff rides to military installations, museums, historic battlefields and monuments, panel discussions, community service projects, leadership labs, leadership camps, as well as participation in classroom discussion, and debate projects on local and world events. Students will gain a world-view perspective and a greater appreciation and understanding of culture, history and government.	033800## Grade level: 10 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b>
<u>Instructional Material:</u> <i>Provided by ROTC Department/Locally adopted textbook - Lookingbill's The American Military: A Narrative History, John Wiley Press, 2014, ISBN: 9781444337365</i> <u>Prerequisites:</u> Student must have completed JROTC I or seeking Humanities Endorsement 033800## - 1st Time ##=02, 2nd Time ##=22, 3rd Time ##=32, 4th Time ##=42	
<b>AIR FORCE JUNIOR RESERVE OFFICER TRAINING I AB (PE SUBSTITUTION) AIR FORCE JUNIOR RESERVE OFFICER TRAINING I AB (NO PE CREDIT)</b>	<b>5963 AB (PE Substitution) or 5947 AB (No PE Credit)</b>
AFJROTC1. AS-1 - A JOURNEY into AVIATION HISTORY: This is an aviation history course focusing on the development of flying throughout the centuries. The emphasis is on civilian and military contributions to aviation. LE-1-Citizenship, Character and Air Force Tradition: Focuses on the AFJROTC mission and organization, customs and courtesies, and the meaning and purpose of standards, discipline, and conduct. A Health and Wellness program is 20% of the total program instruction and encourages students to develop lifelong fitness goals.	PES00004 (PE Substitution) or 03160100 (No PE Credit) Grade level: 9 - 12 HS Credit(s): 1 College Hour(s): N/A
<u>Instructional Material:</u> <i>Textbooks, Instructor Guide, CD, DVD provided by the JROTC/Air Force</i> <u>Prerequisites:</u> 14 years of age <b>Tier III</b>	

<b>AIR FORCE JUNIOR RESERVE OFFICER TRAINING II AB</b>	<b>5965 AB</b>
<p>AFJROTC2. AS-2 – The Science of Flight; A Gateway to New Horizons: This second-year course covers the aerospace environment, the human requirements for flight, principles of aircraft flight, and principles of navigation. Discussions include the forces of lift, drag, thrust and weight. LE-1-Citizenship, Character and Air Force Tradition: Focuses on the AFJROTC mission and organization, customs and courtesies, and the meaning and purpose of standards, discipline, and conduct. A Health and Wellness program is 20% of the total program instruction and encourages students to develop lifelong fitness goals.</p>	<p>03160200 Grade level: 10 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier III</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC/Air Force</i>	
<i>Prerequisites: AFJROTC IAB</i>	
<b>AIR FORCE JUNIOR RESERVE OFFICER TRAINING III AB</b>	<b>5967 AB</b>
<p>AFJROTC3. AS-3 -Exploring Space; The High Frontier: This course examines our Solar System, the Sun, Earth, and Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned space flight. LE-3-Life Skills and Career Opportunities: Comprehend the importance of obtaining a degree or skill after high school comprehend the importance of financial planning, and know what career opportunities are available. A Health and Wellness program is 20% of the total program instruction and encourages students to develop lifelong fitness goals and skills.</p>	<p>03160300 Grade level: 10 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC/Air Force</i>	
<i>Prerequisites: AFJROTC IIAB</i>	
<b>HONORS AIR FORCE JUNIOR RESERVE OFFICER TRAINING III ABH</b>	<b>5969 AB/H</b>
<p>Student assigned to honors AFJROTC will be required to meet all the requirements of AFJROTC3 in addition the following requirements: The honors course is designed to provide mid-level staff and primary cadet leaders the opportunity for applying advanced academic leadership and management skills, using proven and creative techniques, while employing multiple intelligences and learning strategies. Honors cadets will be challenged by the daily rigors of program requirements necessary to ensure a highly successful unit.</p>	<p>03160300 Grade level: HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC/Air Force</i>	
<i>Prerequisites: AFJROTC IAB and IIAB</i>	
<b>AIR FORCE JUNIOR RESERVE OFFICER TRAINING IV AB</b>	<b>5971 AB</b>
<p>AFJROTC3. AS-4H – Management of the Cadet Corps: The cadets manage the entire corps during their fourth year in the AFJROTC program. This hands-on experience affords the cadets the opportunity to put theories of previous leadership courses into practice. LE-4-Leadership Education: The students will comprehend the importance of self-management and the management of others and comprehend the concepts and skills of problem solving, decision making and negotiation. A Health and Wellness program is 20% of the total program instruction and encourages students to develop lifelong fitness goals and skills.</p>	<p>03160400 Grade level: 12 HS Credit(s): 1 College Hour(s): NA <b>Tier III</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC/Air Force</i>	
<i>Prerequisites: AFJROTC IIIAB</i>	
<b>HONORS AIR FORCE JUNIOR RESERVE OFFICER TRAINING IVA/B/H</b>	<b>5973 AB</b>
<p>(Advance Management of the Cadet Corps) The requirements for this course are in addition to the requirements of AS4 and LE4. This course provides students with advance leadership and instructional experiences while allowing them to serve as senior cadet commanders and staff officers. Emphasis is on effective application of training management, planning management, leadership and communication skills, ethical reasoning, office administration, decision making in an assigned command or staff position. Applied service learning (community service projects) involves developing a concept, setting measurable goals, planning and leading a service project. Students will lead major competitions, activities and external inspections</p>	<p>03380002 Grade level: 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC/Air Force</i>	
<i>Prerequisites: AFJROTC IIAB and IIIAB</i>	
<b>HONORS AVIATION GROUND SCHOOL ABH</b>	<b>5961 AB</b>
<p>AFJROTC4. AS-4 Honors – Aviation Honors Ground School: The material covered is a more advance, more-in-depth study of the previous aerospace topics. When the course is complete, the students should be prepared to take and pass the Federal Aviation Administration (FAA) written examination. The Private Pilot Manual is the source for initial study and review. The course covers advanced weather, aerodynamics, FAA regulations, flight planning and navigation. At the end of this course, the student should pass the 60-question FAA written exam.</p>	<p>N1290400 Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.</i>	
<i>Prerequisites: AFJROTC AS IIAB</i>	
<b>NAVY SCIENCE JUNIOR RESERVE OFFICER TRAINING I AB (PE SUBSTITUTION) NAVY SCIENCE JUNIOR RESERVE OFFICER TRAINING I AB (NO PE CREDIT)</b>	<b>5977 AB (PE Substitution) or 5979 AB (No PE Credit)</b>
<p>NJROTC1. This Naval Science 1 course introduces students to fundamental elements of the meaning of citizenship, understanding the American Government, and the elements of leadership; the value of scholarship in attaining life goals; promotes an awareness of the importance of a healthy lifestyle, including physical fitness, a proper diet, and controlling stress and drug awareness; provides the principles of health and first aid; includes geography, orienteering, survival and map reading skills, financial skills and an introduction to the U.S. Navy with an overview of Naval ships and aircraft.</p>	<p>PES00004 (PE Substitution) 3160100 (No PE Credit) Grade level: 9 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier III</b></p>
<i>Instructional Material: Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.</i>	
<i>Prerequisites: 14 years of age</i>	

<b>NAVY SCIENCE JUNIOR OFFICER RESERVE TRAINING II AB</b>	<b>5981 AB</b>
<p>NJROTC2. The Naval Science 2 course builds on the general introduction provided in Naval Science 1 to further develop the traits of citizenship and leadership, and to introduce cadets to the technical areas of naval science and the role of the U.S. Navy in maritime history and the vital importance of the world's oceans to the continued well-being of the United States. Students are introduced to Maritime History, including the American Revolution, Civil War, the rise of the U.S. to world power status, World Wars 1 and 2, the Cold War Era and the 1990s and Beyond; introduction to Nautical Sciences to include Maritime Geography, Oceanography, Meteorology, Astronomy, and Physical Sciences.</p>	<p>03160200 Grade level: 10 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier III</b></p>
<u>Instructional Material:</u> Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.	
<u>Prerequisites:</u> NJROTC I	
<b>NAVY SCIENCE JUNIOR OFFICER RESERVE TRAINING III AB</b>	<b>5983 AB</b>
<p>NJROTC3. The Naval Science 3 course broadens the understanding of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, and the importance of sea power and national security. Students gain a more in-depth knowledge of Naval ships and aircraft and an introduction to marine navigation and seamanship. This course also provides instruction on Naval Operations and Support Functions, Military Law, and International Law and the Sea. Provides introduction to ship construction and damage control, shipboard organization and watch standing, basic seamanship, marine navigation, and naval weapons and aircraft. Includes on-going instruction in leadership, citizenship and discipline.</p>	<p>03160300 Grade level: 11 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier III</b></p>
<u>Instructional Material:</u> Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.	
<u>Prerequisites:</u> NJROTC II	
<b>HONORS NAVY SCIENCE JUNIOR OFFICER RESERVE TRAINING III AB</b>	<b>5985 AB</b>
<p>NJROTC3/Honors. Student assigned to honors NJROTC will be required to meet all the requirements of NJROTC3 in addition the following requirements: The honors course is designed to provide mid-level staff and primary cadet leaders the opportunity for applying advanced academic leadership and management skills, using proven and creative techniques, while employing multiple intelligences and learning strategies. Honors cadets will be challenged by the daily rigors of program requirements necessary to ensure a highly successful unit. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long-range life goals.</p>	<p>03160300 Grade level: 9 - 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b></p>
<u>Instructional Material:</u> Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.	
<u>Prerequisites:</u> AFJROTC I and II	
<b>NAVY SCIENCE JUNIOR OFFICER RESERVE TRAINING IV AB</b>	<b>5987 AB</b>
<p>NJROTC4. Naval Science 4 course focus is primarily on practical leadership techniques and implementation. The intent is to assist seniors in understanding leadership and improving their leadership skills by putting them in positions of leadership, under supervision, then helping them analyze the reasons for their varying degrees of success throughout the year. Classroom activities include seminars, reading assignments, classroom presentations, and practical work with younger cadets. This hands-on experience affords the cadets the opportunity to put theories of previous leadership courses into practice. Seniors are mentored/guided in their presentation for life after high school to include college preparation, scholarship applications, and the variety of choices that are available to them. Instruction is provided in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Students are provided access to ACT/SAT prep courses, guidance in selecting a college and pursuing available scholarships, and mentoring in establishing long-range life goals.</p>	<p>03160400 Grade level: 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier III</b></p>
<u>Instructional Material:</u> Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.	
<u>Prerequisites:</u> NJROTC III	
<b>HONORS NAVY SCIENCE JUNIOR OFFICER RESERVE TRAINING IV AB</b>	<b>5989 AB</b>
<p>NJROTC4/Honors The requirements for this course are in addition to regular course requirements. Requires students with advance leadership and instructional experiences while allowing them to serve as senior cadet commanders and staff officers. Emphasis is on effective application of training management, planning management, leadership and communication skills, ethical reasoning, office administration, decision making in an assigned command or staff position. Applied service learning (community service projects) involves developing a concept, setting measurable goals, planning and leading a service project. Students will lead major competitions, activities and external inspections.</p>	<p>03160400 Grade level: 12 HS Credit(s): 1 College Hour(s): N/A <b>Tier II</b></p>
<u>Instructional Material:</u> Textbooks, Instructor Guide, CD, DVD provided by the JROTC Dept.	
<u>Prerequisites:</u> NJROTC II and III	

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# ***SPECIAL EDUCATION***

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**TEKS-BASED COURSE GUIDE FOR  
HIGH SCHOOL SPECIAL EDUCATION PROGRAM**

**Correlation Chart of High School General Education Courses and Special Education Courses**

High School	Course Numbers	General Education Course Titles	Spec. Ed Course Numbers	Special Education For Substitution In ARD	Special Education Course Number	Special Education Title/ Name
English Language Arts	3011	English IA/B	3031	Basic English IA/B	30197 A/B	English 1 ALT A/B
	3013	English II A/B	3033	Basic English IIA/B	30217 A/B	English 2 ALT A/B
	3015	English IIIA/B	3035	Basic English IIIA/B	3023 A/B	English 3 ALT A/B
	3017	English IVA/B	3037	Basic English IVA/B	3025 B	English 4 ALT A/B
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Reading	3941	Reading IA/B	3911	Basic Reading IA/B	3947 A/B	Reading 1 ALT A/B
	3943	Reading IIA/B	3913	Basic Reading IIA/B	3948 A/B	Reading 2 ALT A/B
	3945	Reading IIIA/B	3915	Basic Reading IIIA/B	3949 A/B	Reading 3 ALT A/B
	3955	Reading Application and Study Skills	3953	Basic Reading Application and Study Skills	3950 A/B	Reading 4 ALT A/B
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Mathematics	7051	Algebra IA/B	7042	Basic Algebra IA/B	70597 A/B	Algebra 1 ALT A/B
	7071	Geometry IA/B	7072	Basic Geometry IA/B	7061 A/B	Geometry ALT A/B
	7052	Mathematical Models with Applications IA/B	7054	Basic Mathematical Models with Applications A/B	7063 A/B	Math Models ALT A/B
	7053	Algebra IIA/B	7058	Basic Algebra IIA/B	7065 A/B	Algebra 2 ALT A/B
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Science	7572	Biology A/B	7570	Basic Biology A/B	75597 A/B	Biology ALT A/B
	7532	Integrated Physics and Chemistry A/B	7530	Basic Integrated Physics and Chemistry A/B	7561 A/B	Introduction to Physical Science ALT A/B
	7676	Environmental Systems A/B	7674	Basic Environmental Systems A/B	7563 A/B	Environmental Systems ALT A/B
					7565 A/B	Aquatic Science ALT A/B

**Correlation Chart of High School General Education Courses and Special Education Courses**

<b>High School</b>	<b>Course Numbers</b>	<b>General Education Course Titles</b>	<b>Special Education Course Numbers</b>	<b>Special Education For Substitution In ARD</b>	<b>Special Education Course Numbers</b>	<b>Special Education Title/ Name</b>
Social Studies	8011	World Geography Studies A/B	8023	Basic World Geography Studies A/B	8013 A/B	Geography ALT A/B
	8033	World History Studies A/B	8031	Basic World History Studies A/B	8015 A/B	World History Studies ALT A/B
	8056	United States History Studies Since Reconstruction A/B	8060	Basic United States History Studies Since Reconstruction A/B	80177 A/B	United States History 1877 ALT A/B
	8076	United States Government IT	8074	Basic United States Government IT	8019 A/B	United States Government ALT A/B
	8096	Economics with Emphasis on the Free Enterprise System and Its Benefits	8093	Basic Economics with emphasis on the Free Enterprise System and its benefits	8021 A/B	Economics ALT A/B
Health Education	5001	Health Education IT	5015	Basic Health Education IT	5005 A/B	Personal Health/ Hygiene IV A/B
Physical Education	5050	Foundations of Personal Fitness IT	5046	Basic Foundations of Personal Fitness IT		
	5056	Aerobic Activities IT	5047	Basic Aerobic Activities IT		
	5053	Individual Sports and Recreational Activities IT	5048	Basic Individual Sports and Recreational Activities IT		
	5062	Adventure/Outdoor Education IT	5049	Basic Adventure/Outdoor Education IT		
Speech	3126	Communication Applications IT	3128	Basic Communication Applications IT	3128	Communication Applications IT ALT
	AV09901T	Professional Communication *Instructor must be both CTE & SPED Certified	AV09902T	Basic Professional Communication *Instructor must be both CTE & SPED Certified		
LOTE Substitutions	Consecutive Reading Courses	OR	Consecutive CTE Courses	OR	2 additional years of English, Math, Science or Social Studies once requirements are met for the graduation plan	



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**AV09902T–Basic Professional Communication IT (BAPROFCOMM T)**

Prerequisite: Speech recommended by ARD committee as a special education course and CTE course incorporated into the ARD schedule of services.

Grade Placement: 9 - 12 Credit: .5

Coursework will be taken in lieu of general education Speech #3126. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee. These courses must be taught by individuals who hold both Special Education and CTE certifications.

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**3911A/B–Basic Reading IAB (BAREAD1 A/B)**

Prerequisite: Reading recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Reading I #3941. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**3913A/B–Basic Reading IIAB (BAREAD2 A/B)**

Prerequisite: Reading recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 10 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Reading II #3943. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**3915A/B–Basic Reading IIIAB (BAREAD3 A/B)**

Prerequisite: Reading recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 11 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Reading III #3945. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**3953T–Basic Reading Application and Study Skills IT (BAREADAPP1T)**

Prerequisite: Reading recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Reading #3955. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**7042A/B–Basic Algebra IAB (BAALG1 A/B)**

PEIMS # 03100500

Prerequisite: Mathematics recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Algebra I #7051. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee. *Student will take the Algebra I EOC.*

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**7072A/B–Basic Geometry IAB (BAGEOM1 A/B)**

Prerequisite: Mathematics recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Geometry #7071. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**7054A/B–Basic Mathematical Models with Applications IAB (BAMTHMOD1 A/B)**

Prerequisite: Mathematics recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12 Credit: 0.5 - 1

Coursework will be taken in lieu of general education Mathematical Models #7052. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**7058A/B–Basic Algebra IAB (BAALG2 A/B)**

Prerequisite: Mathematics recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 10 - 12                      Credit: 0.5 - 1

Coursework will be taken in lieu of general education Algebra II #7053. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**7570A/B–Basic Biology IAB (BABIO1 A/B)****PEIMS # 03010200**

Prerequisite: Science recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12                      Credit: 0.5 - 1

Coursework will be taken in lieu of general education Biology #7572. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee. *Student will take the Biology EOC.*

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**7530A/B–Basic Integrated Physics & Chemistry IAB (BAIPHYCHEM1 A/B)**

Prerequisite: Science recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12                      Credit: 0.5 - 1

Coursework will be taken in lieu of general education Integrated Physics & Chemistry #7532. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD schedule of services.

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**7674A/B–Basic Environmental Systems IAB (BAENVSYS1 A/B)**

Prerequisite: Science recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 10 - 12                      Credit: 0.5 - 1

Coursework will be taken in lieu of general education Environmental Systems #7676. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**8023A/B–Basic World Geography Studies IAB (BAWGEO1 A/B)**

Prerequisite: Social Studies recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12                      Credit: 0.5 - 1

Coursework will be taken in lieu of general education World Geography Studies #8011. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**8031A/B–Basic World History Studies IAB (BAWHIST1 A/B)**

Prerequisite: Social Studies recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12                      Credit: 0.5 - 1

Coursework will be taken in lieu of general education World History Studies #8033. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**8060A/B–Basic United States History Studies Since Reconstruction IAB (BAUSHISTSSR1A/B) PEIMS # 03340100**

Prerequisite: Social Studies recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12                      Credit: 1

Coursework will be taken in lieu of general education U.S. History Studies #8056. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee. *Student will take the US History EOC.*

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**8074T–Basic United States Government IT (BAUSGOVT1T)**

Prerequisite: Social Studies recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 11 - 12                      Credit: 0.5

Coursework will be taken in lieu of general education United States Government #8076. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**8093T–Basic Economics with Emphasis on the Free Enterprise System and Its Benefits IT (BAECOF1T)**

Prerequisite: Social Studies recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 11 - 12                      Credit: 0.5

Coursework will be taken in lieu of general education Emphasis on the Free Enterprise System and Its Benefits #8096. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**5015T–Basic Health Education IT (BAHLTHED1T)**

Prerequisite: Health recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 11 - 12                      Credit: 0.5

Coursework will be taken in lieu of general education Health Education #5001. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**5046T–Basic Foundations of Personal Fitness IT (BAPE1T)**

Prerequisite: Physical Education recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 12                      Credit: 0.5

Coursework will be taken in lieu of general education Physical Education #5050. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**5047T–Basic Aerobic Activities IT (BAPEAA1T)**

Prerequisite: Physical Education recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 10 - 12                      Credit: 0.5

Coursework will be taken in lieu of general education Physical Education #5056. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**5048T–Basic Individual Sports and Recreational Activities IT (BAPEIS1T)**

Prerequisite: Physical Education recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 9 - 10                      Credit: 0.5

Coursework will be taken in lieu of general education Physical Education #5053. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**5049T–Basic Adventure/Outdoor Education IT (BAPEAEO1T)**

Prerequisite: Physical Education recommended by ARD committee as a special education course and incorporated into the ARD schedule of services.

Grade Placement: 10 - 12                      Credit: 0.5

Coursework will be taken in lieu of general education Physical Education #5062. Instruction is provided at the student's enrolled grade level, with modification of TEKS, as determined by the ARD Committee.

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**SPECIAL EDUCATION  
SIGNIFICANTLY MODIFIED CURRICULUM**

*With the assistance of a counselor, a four-year plan must be developed and endorsed by the ARD Committee at age fourteen or upon entry into 8<sup>th</sup> grade (whichever comes first) for an eligible special education student. While it is the expectation that students earn as many credits as possible in the general education setting, the courses listed below are intended for students who need prerequisite TEKS Skills development with primary focus placed on functional or life skills, and alignment to the student's post-secondary goals. Decisions regarding services must be approved by the ARD Committee.*

**Students enrolled in equivalent test courses (#30197, #30217, #70597, #75597, #80177), the STAAR-ALT EOC will likely be the state assessment of appropriate choice. ARD Committee approval is required.**

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
30197A/B	English 1 ALT AB	ENG 1 ALT A/B	English I	03220107	Alternate Test
30217A/B	English 2 ALT AB	ENG 2 ALT A/B	English II	03220207	Alternate Test
3023A/B	English 3 ALT AB	ENG 3 ALT A/B	English III	03220300	No EOC
3025A/B	English 4 ALT AB	ENG 4 ALT A/B	English IV	03220400	No EOC

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 – 12+      Credit: .5 – 1

Communication coursework addresses basic functional skills in English that are necessary for daily living. Courses should be completed in sequential order.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
3947A/B	Reading 1 ALT AB	READ 1 ALT A/B	Reading	3270700	
3948A/B	Reading 2 ALT AB	READ 2 ALT A/B	Reading	3270800	
3949A/B	Reading 3 ALT AB	READ 3 ALT A/B	Reading	3270900	
3950A/B	Reading 4 ALT AB	READ 4 ALT A/B	Reading	84000XXX	

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 – 12+      Credit: 0.5 - 1

Basic strategies and skills that develop word recognition, fluency, and reading comprehension are taught. Courses should be taken in sequential order.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
70597A/B	Algebra 1 ALT AB	ALG 1 ALT A/B	Algebra I	03100507	Alternate
7061A/B	Geometry ALT AB	GEOM ALT A/B	Geometry	03100700	No EOC
7063A/B	Math Models ALT AB	MTHMOD ALT A/B	Math Models	03102400	No EOC
7065A/B	Algebra 2 ALT	ALG 2 ALT A/B	Algebra II	03100600	No EOC

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 - 12 +      Credit: 0.5 - 1

Basic functional skills in mathematics that are necessary for daily living are addressed. Courses should be taken in sequential order.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
75597A/B	Biology ALT AB	BIO ALT A/B	Biology	03010207	Alternate
7561A/B	Integrated Physics/Chemistry ALT AB	IPC ALT A/B	IPC	03060201	No EOC
7563A/B	Environmental Systems ALT AB	ENVIRSYS ALT A/B	Environmental	03020000	No EOC
7565A/B	Aquatic Science ALT AB	AQUA SCI ALT A/B	Aquatic	03030000	No EOC

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 - 12+      Credit: 0.5 - 1

Basic Science concepts that are necessary for daily living are addressed. Courses should be taken in sequential order.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
8013A/B	World Geography ALT AB	W GEO ALT A/B	World Geography Studies		No EOC
8015A/B	World History Studies ALT AB	W HIST ALT A/B	World History		No EOC
80177A/B	United States History 1877 ALT AB	US HIST ALT A/B	United States History Studies 1877	03340107	Alternate
8019T	United States Government ALT AB	GOV T	Government (1 Semester Required)		No EOC
8021T	Economics ALT AB	ECOFE 1T	Economics (1 Semester Required)		No EOC

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 - 12 +      Credit: 0.5 - 1

Basic social studies concepts that are necessary for daily living are addressed.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
5005T	Health Education ALT AB	HLTHED1 T	Health Education	03810100	
5007A/B*	Personal Health/Hygiene VAB	PHH 5A/B	Personal Health Hygiene	843000XXX	
5009A/B*	Personal Health/Hygiene VIAB	PHH 6A/B	Personal Health Hygiene	843000XXX	
5011A/B*	Personal Health/Hygiene VIIAB	PHH 7A/B	Personal Health Hygiene	843000XXX	
5013A/B*	Personal Health/Hygiene VIIIAB	PHH 8A/B	Personal Health Hygiene	843000XXX	

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s). \*For post-secondary students only.

Grade Placement: 9 - 12 +      Credit: 0.5

Basic skills that are necessary to maintain health and personal hygiene are addressed.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
5063A/B	Activities of Daily Living IVAB	ADL 4A/B	Activities of Daily Living	85000XXX	
5065A/B	Activities of Daily Living VAB	ADL 5A/B	Activities of Daily Living	85000XXX	
5067A/B	Activities of Daily Living VIAB	ADL 6A/B	Activities of Daily Living	85000XXX	
5069A/B	Activities of Daily Living VIIAB	ADL 7A/B	Activities of Daily Living	85000XXX	
5071A/B	Activities of Daily Living VIIIA	ADL 8A/B	Activities of Daily Living	85000XXX	

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 - 12 +      Credit: Local

Self-help skills necessary for success in life are addressed. Focuses on training for maximum independence and provides instruction in concepts and skills needed to keep house, including cleaning skills, shopping, clothing care, preparing simple snacks and meals, and table setting. Also includes grounds maintenance skills and safety skills in all areas.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
5073A/B	Recreation/Leisure IVAB	RECL 4A/B	Recreation/Leisure	84200XXX	
5075A/B	Recreation/Leisure VAB	RECL 5A/B	Recreation/Leisure	84200XXX	
5077A/B	Recreation/Leisure VIAB	RECL 6A/B	Recreation/Leisure	84200XXX	
5079A/B	Recreation/Leisure VIIAB	RECL 7A/B	Recreation/Leisure	84200XXX	
5081A/B	Recreation/Leisure VIIIAB	RECL 8A/B	Recreation/Leisure	84200XXX	

Prerequisite: Eligible for significantly modified curriculum and placement by ARD committee and incorporated into the ARD schedule page(s).

Grade Placement: 9 - 12      Credit: Local

Provides job related training in socially appropriate behaviors for lifetime leisure activities in the community.

### FW Bridges and other Vocational Adjustment Cooperative Program

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
0855A/B	Career Exploration and Development IAB	CED 1A/B	Career Exploration/Development	85000XXX	
0857A/B	Career Exploration and Development IIAB	CED 2A/B	Career Exploration/Development	85000XXX	

Prerequisite: Placement of ARD Committee

Grade Placement: 9 - 12      Credit: Local

Students receive classroom instruction that is designed to prepare them for successful work experiences and explore career clusters. Student interests, preferences, and aptitudes will be evaluated to help determine appropriate job placements. Classroom instruction includes, but is not limited to, job search techniques, completion of job applications, interview techniques, appropriate work attire, work-related attitudes, communication skills and conflict resolution. CED2AB may be taken for local credit only.



<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
0865A/B	Vocational Adjustment Cooperative IAB	VAC 2A/B	Vocational Adjustment Cooperative	85000XXX	
0867A/B	Vocational Adjustment Cooperative IIIAB	VAC 3A/B	Vocational Adjustment Cooperative	85000XXX	
0877A/B	Vocational Adjustment Cooperative IVAB	VAC 4A/B	Vocational Adjustment Cooperative	85000XXX	
0887A/B*	Vocational Adjustment Cooperative VA	VAC 5A/B	Vocational Adjustment Cooperative	85000XXX	

Prerequisite: Placement of ARD Committee; 0855 Career Exploration and Development 1A/B  
Grade Placement: 9 – 12+ Credit: Local

These courses are designed to provide Special Education support and related services to students who are employed with regularly scheduled direct involvement by special education personnel. Students continue to work on general and specifically applicable employability skills that support their progress on the IEP goals and objectives, which are adopted by the ARD committee. Each course is for three periods and receives 1.5 credits. To ensure continual development of independent work skills, the vocational adjustment coordinator maintains a regular visitation schedule to observe students at work. \*Continues the development of independent work skills as described for VAC II-V and completes preparation for graduation. Students should be enrolled in VAC VB during the last semester immediately preceding graduation; this enrollment will signal the placement of the graduation\*.

### Basic Supported Employment/JOB PREP/LIFT Options

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
0843A/B	Community Life Skills IVAB	COMSK 4A/B	Community Skills IV	85000XXX	
0847A/B	Community Life Skills VAB	COMSK 5A/B	Community Skills V	85000XXX	
0849A/B	Community Life Skills VIAB	COMSK 6A/B	Community Skills VI	85000XXX	
0851A/B	Community Life Skills VIIAB	COMSK 7A/B	Community Skills VII	85000XXX	
0853A/B	Community Life Skills VIIIAB	COMSK 8A/B	Community Skills VIII	85000XXX	

Prerequisite: Placement by the ARD committee  
Grade Placement: 9 – 12 + Credit: Local

Maximize independence by accessing community resources/agencies and classroom instruction in order to develop money management skills, personal communication and use of public transportation. These numbers describe Basic Supported Employment, but might also be used secondarily to describe Job Prep completion.

### Job PREP / Basic Supported Employment

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
0811A/B	Occupational Exploration IAB	OCEXP 1A/B	Occupational Exploration I	85000XXX	
0813A/B	Occupational Exploration IIAB	OCEXP 2A/B	Occupational Exploration II	85000XXX	
0815A/B	Occupational Exploration IIIAB	OCEXP 3A/B	Occupational Exploration III	85000XXX	
0817A/B	Occupational Exploration IVAB	OCEXP 4A/B	Occupational Exploration IV	85000XXX	
0819A/B	Occupational Exploration VAB	OCEXP 5A/B	Occupational Exploration V	85000XXX	

Prerequisite: Placement by the ARD Committee  
Grade Placement: 9 – 12+ Credit: Local

Provides a transition training program prior to placing students in a work setting. These courses include assessment of the students' abilities and simulated work experience with specific training activities necessary to expedite acquisition of new skills, increasing production rate, and appropriate work behaviors. These numbers describe Job PREP, but might also be used secondarily for Basic Supported Employment Completion.

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subjects</b>	<b>PEIMS #</b>	<b>Type Test Given</b>
0835A/B	Institutional Home Management IAB	ISHMMGT 1A/B	Inst Home Management I	85000XXX	
0837A/B	Institutional Home Management IIAB	ISHMMGT 2A/B	Inst Home Management II	85000XXX	
0839A/B	Institutional Home Management IIIAB	ISHMMGT 3A/B	Inst Home Management III	85000XXX	
0841A/B	Institutional Home Management IVAB	ISHMMGT 4A/B	Inst Home Management IV	85000XXX	

Prerequisite: Placement by ARD Committee  
Grade Placement: 9 – 12 Credit: Local

Focuses on training for maximum independence and provides instruction in concepts and skills needed to keep house, including cleaning skills, shopping, clothing care, preparing simple snacks and meals, and table setting. Also, includes grounds maintenance skills and safety skills in all areas. **SPED Administrator approval required.**

**Community Intern Partnership Program - Project Search**

Course #	Course Title/Name	Short Title	Core Subjects	PEIMS #	Type Test Given
0889A/B	Community Intern Partnership Program IAB	CIPP 1A/B	Community Intern Partnership	85000XXX	
0891A/B	Community Intern Partnership Program IAB	CIPP 2A/B	Community Intern Partnership	85000XXX	

Prerequisite: Placement of the ARD Community  
Grade Placement: 12+ Last year in High School      Credit: Local

A one-year high school intern transition program which provides students training and education leading to employment. The intern (student) attends a community-based worksite and earns local high school credits. The program serves as a workplace alternative for interns (students) during their last year in high school. Interns (students) continue to work on general applicable transferable employability skills that support their post-secondary goals, objectives and progress on the IEP. **Each course is for three periods. (All local credits)**

**FWISD – EXPANCO and other Community-Based Transition Training Programs**

Course #	Course Title/Name	Short Title	Core Subject	PEIMS #	Test Type Given
0845A/B	Individualized Work Opportunities IA/B	INDWRKOP 1AB	Individualized Work Opportunities I	85000XXX	

Prerequisite: Placement of ARD Committee  
Grade Placement: 11 – 12      Credit: Local

Provides training in vocational skills orientation for students who exhibit substantial limitations in functioning. The vocational skills consist of production line work, basic academics, personal and social development, and recreation.

Course #	Course Title/Name	Short Title	Core Subject	PEIMS #	Test Type Given
0846A/B	Individualized Work Opportunities 2A/B	NDWRKOP2A/B	Individualized Work opportunities	85000XXX	3 class periods
0848A/B	Individualized Work Opportunities 3A/B	INDWRKOP3A/B	Individualized Work opportunities	85000XXX	3 class periods
0850A/B	Individualized Work Opportunities 4A/B	INDWRKOP4A/B	Individualized Work opportunities	85000XXX	3 class periods
0852A/B	Individualized Work Opportunities 5A/B	INDWRKOP5A/B	Individualized Work opportunities	85000XXX	3 class periods
0858A/B	Individualized Work Opportunities 6A/B	INDWRKOP6A/B	Individualized Work opportunities	85000XXX	
0859A/B	Individualized Work Opportunities 7A/B	INDWRKOP7A/B	Individualized Work opportunities	85000XXX	
0860A/B	Individualized Work Opportunities 8A/B	INDWRKOP8A/B	Individualized Work opportunities	85000XXX	
0861A/B	Individualized Work Opportunities 9A/B	INDWRKOP9A/B	Individualized Work opportunities	85000XXX	

Prerequisite: Placement by ARD Committee; 0845 Individualized Work Opportunities Orientation (may be enrolled currently).  
Grade Placement 11 – 12+      Credit: Local

Provides training in vocational skills for students who exhibit substantial limitations in function. The program consists of supervision and instruction in production line work, basic academics, personal and social development, and recreation. This program operates under the guidelines of the Texas Education Agency. When students achieve the desired criteria, efforts are made to place them in competitive employment. This course may be used for other programs when necessary.

**Step Beyond Program and other College Related Programs**

Course #	Course Title/Name	Short Title	Core Subject	PEIMS	Test Type Given
0677A/B	General Employability Skills A/B	GEMPLS	General Employability Skills	N1270153	

Prerequisite: Placement by ARD Committee  
Grade Placement: 11 – 12      Credit: 1 (state elective credit)

Eligible students will acquire skills leading to successful job acquisition and maintenance by mastering work-related, decision making, team work development, job seeking and retention skills. This innovative course is taught in conjunction with community college partnerships, and is designed to guide students through developing skills that are transferrable to a variety of jobs and careers.

Course #	Course Title/Name	Short Title	Core Subject	PEIMS	Test Type Given
0675A/B	Methodology for Academic and Personal Success IA/B	MAPS 1	Methodology Academic Personal Success I	N1130021	

Prerequisite: Placement by ARD Committee  
Grade Placement: 11 – 12      Credit: 1 credit (state elective credit)

Eligible students will explore options available in the world of work and develop strategies and skills needed to achieve personal and professional goals. This innovative course is to be offered in a community college setting to age and grade appropriate students seeking vocational certification or certificates of training.

**College Transition-Inclusion**

<b>Course #</b>	<b>Course Title/Name</b>	<b>Short Title</b>	<b>Core Subject</b>	<b>PEIMS</b>	<b>Test Type Given</b>
<b>0854A/B</b>	<b>College Transition A/B</b>	<b>CLGTRN A/B</b>	<b>College Transition</b>	<b>N1290050</b>	

Prerequisite: Upper level high school students with special needs exploring future college studies  
Grade Placement: 11 – 12                      Credit: 1 (state elective credit)

College Transition is a general education elective and innovative course available to upper level high school students. It is designed to equip students with the knowledge, skills and abilities necessary to be active and successful learners in both high school and college. The curriculum addresses the basic steps for entering college including college options, assessments, and admissions, building orientation, services and support, as well as provides preparation for academic content in higher education.

**The following additional innovative courses are to be offered as electives on participating high school and/or college campuses.**

<b>Course #</b>	<b>Course Title/ Name</b>	<b>Short Title</b>	<b>PEIMS</b>
<b>0856 A/B</b>	<b>Path College Career IA/B</b>	<b>PATHCC1</b>	<b>N1290051</b>
<b>0862 A/B</b>	<b>Path College Career IIA/B</b>	<b>PATHCC2</b>	<b>N1290052</b>
<b>0863 A/B</b>	<b>Path College Career IIIA/B</b>	<b>PATHCC3</b>	<b>N1290053</b>
<b>0864 A/B</b>	<b>Path College Career IVA/B</b>	<b>PATHCC4</b>	<b>N1290054</b>

The Path-College/Career/Prep courses advance intellectual curiosity, conscientiousness, dependability, emotional stability, and perseverance through tasks that foster deeper levels of thinking and reasoning in the four core content areas. Teaching expectations for these innovative courses focus on developing the habits and skills that are expected in college study and the workforce.

<b>Course #</b>	<b>Course Title/ Name</b>	<b>Short Title</b>	<b>PEIMS</b>
<b>0665 T</b>	<b>Peer Assistance for Students with Disabilities I T</b>	<b>PASWD1</b>	<b>N1290203</b>
<b>0667 T</b>	<b>Peer Assistance for Students with Disabilities II T</b>	<b>PASWD2</b>	<b>N1290204</b>

Peer Assistance for Students with Disabilities is a state-approved innovative course designed to promote an inclusive educational environment for special education students. Peer assistants assist teachers in general education and/or in special education settings by helping to facilitate including students in appropriate curricular activities designed by instructional staff.

<b>Course #</b>	<b>Course Title/ Name</b>	<b>Short Title</b>	<b>PEIMS</b>
<b>0810 T</b>	<b>Community Transportation</b>	<b>COMTRNS T</b>	<b>N1304660</b>

The purpose of this course is to introduce knowledge and skills to empower students to research and access public transportation options in their respective communities. Areas to be addressed include pedestrian and rider safety, navigating public transportation systems, use of technology, and general social skills, including self-advocacy, self-assertiveness, and transportation etiquette.

<b>Course #</b>	<b>Course Title/ Name</b>	<b>Short Title</b>	<b>PEIMS</b>
<b>9101AB</b>	<b>Braille Reading and Writing AB</b>	<b>BRAILLE</b>	<b>N1100505</b>

The purpose of this course is to provide instruction in Pre-Braille skills, tactual discrimination, the reading and writing of the Braille code and the development of efficient Braille Reading including fluency and comprehension. This course will emphasize the conventions and mechanics of braille as well as facilitate and support tasks completed in all subject areas.

<b>Course #</b>	<b>Course Title/ Name</b>	<b>Short Title</b>	<b>PEIMS</b>	<b>Test Type Given</b>
<b>9102AB</b>	<b>Navigating Life for students who are Deaf or Hard of Hearing</b>	<b>NAVLOSS</b>	<b>N1290330</b>	

The purpose of this course is to provide the necessary information, resources, and opportunities that will empower students who are deaf or hard of hearing to effectively apply information and skills learned in educational, home, and community settings in ways that facilitate achievement in secondary and post-secondary environments. This course will emphasize the following areas: Audiology, Hearing Health, Assistive Technology, Support Services, Accommodations, Communication, Self-Determination and Advocacy, as well as Deaf Culture.

## Graduation Options §89.1070. Graduation Requirements

### *Graduation Codes for Special Education Eligible Students*

**Chart 1-** Special Education Eligible Students who entered Grade 9 **during** the 2014-2015 and thereafter may be awarded a regular high school diploma if one of the following conditions are met.

Grad Code	89.1070 subsection	Plan	Credits Requirements	Modified Curriculum	State Assessment	The student must also successfully complete the student's individualized education program (IEP) and meet one of the following conditions:
34	◆(b)(1)	FHSP	Met	No	Met Standard on state assessment or passed 3 out of 5	
35	◆(b)(1)	FHSP	Met	No	Participated - ARD may determine not necessary for graduation	
54†	✱(b)(2)A	FHSP	Met	1 or more core class	Met Standard or Participated - ARD may determine not necessary for graduation	<b>Obtained full-time employment AND sufficient self-help skills to enable the student to maintain the employment without direct and ongoing educational support of the local school district</b>
55†	✱(b)(2)B	FHSP	Met	1 or more core class	Met Standard or Participated - ARD may determine not necessary for graduation	<b>Demonstrated mastery of specific employability skills and self-help skills that do not require direct ongoing educational support of the local school district</b>
56	✱(b)(2)C	FHSP	Met	1 or more core class	Met Standard or Participated - ARD may determine not necessary for graduation	<b>Access to services that are not within the legal responsibility of public education or employment or educational options for which the student has been prepared by the academic program</b>
57	* (b)(2)D	FHSP	Met	1 or more core class	Met Standard or Participated - ARD may determine not necessary for graduation	Completion of IEP and reached age 22

◆ (a) Graduation with a regular high school diploma under subsections (b)(1), (b)(2)(D), (g)(1), (g)(2), (g)(3), or (g)(4)(D) of this section terminates a student's eligibility for special education services under this subchapter and Part B of the Individuals with Disabilities Education Act and entitlement to the benefits of the Foundation School Program, as provided in Texas Education Code (TEC), §42.003(a).

✱ If student returns through 89.1070 (k) **after graduating and receiving a diploma**, a new leaver code does NOT need to be submitted when the student exits again after returning through 89.1070 (k).

† **Counts toward CCMR (College Career or Military Ready).**

**Remember, modified content, if ARD determines it is substantially rigorous, can be allowed for endorsement credit.**

<b>Program</b>	<b>Grades</b>	<b>Pre-requisites</b>	<b>Notes</b>	<b>Completion Track</b>	<b>Courses Prescribed</b>
<b>Job Prep</b>	Grades 11-12	Completion of academic cores for grades 9 and 10 (required); ARD Placement	Offered three periods daily at FWISD Transition Center at Blvd. Heights; typically, a two-year exploratory work preparation program. Students should be 16 years of age, and, able to follow directions and demonstrate an understanding of safety skills in a work environment.	EXPANCO; VAC; LEAP; Project Search followed by graduation	OCCEXP 0811 IA/B, OCCEXP 0813 IIA/B, OCCEXP 0815 IIIA/B, OCCEXP 0817 IVA/B, OCCEXP 0819 VA/B, COMMSK 0843 IVA/B, COMMSK 0847 VA/B, COMMSK 0849 VIA/B, COMMSK 0851 VIIA/B, COMMSK 0853 VIIIA/B
<b>Life Education and Preparation (LEAP)</b>	Grade 12+	Completion of academic requirements for grades 9 through 12 (required); ARD Placement	Full day placement with focus on vocational skills, independent access to public transportation, and life management skills. Competitive employment is anticipated within three years of program placement.	Graduation or Separation from district with goal of competitive placement	Courses and other appropriate choices from the ADL, RECL, and OCC EXP blocks. Last options to be taken from the INDWRKOP series. Community Transportation
<b>Life Instruction and Functional Training (LIFT)</b>	Grade 12+	Completion of academic requirements for grades 9 through 12 (required); ARD Placement	Full day program with instructional focus on vocational skills, community access skills and home living skills. Basic supported employment anticipated upon completion of this program, which commonly spans three years.	Graduation or Separation from district followed by supported employment in the community	COMMSK 0843 IV A/B, COMMSK 0847 VA/B, COMMSK 0849 VIA/B, COMMSK 0851 VIIA/B, COMMSK 0853 VIIIA/B; OCCEXP 0811 1A/B, OCCEXP 0813 IIA/B, OCCEXP 0815 IIIA/B, OCCEXP 0817 IVA/B, OCCEXP 0819 VA/B and other appropriate choices from the ADL, RECL, and OCC EXP blocks.
<b>LIFE (LEARNING IN FUNCTIONAL ENVIRONMENTS)</b>	Grade 12+	Completion of academic requirements for grades 9-12 (required); ARD Placement	Full day program with instructional focus on developing functional skills related to independent living, self-advocacy, and connecting to agencies resources for support after graduation.	Graduation upon completion of IEP goals and access to agency resources.	PHH 5005 A/B PHH 5007 A/B, PHH 5009 A/B, PHH 50011 A/B, PHH 50013 A/B, ADL 5063 A/B, ADL 5065 A/B, ADL 5067 A/B, ADL 5069 A/B, ADL 5071 A/B, COMSK 0843 A/B COMSK 0847 A/B COMSK 0849 A/B COMSK 0851 A/B COMSK 0853 A/B RECL 5073 A/B RECL 5075 A/B RECL 5077 A/B RECL 5079 A/B RECL 5081 A/B

<b>Program</b>	<b>Grades</b>	<b>Pre-requisites</b>	<b>Notes</b>	<b>Completion Track</b>	<b>Courses Prescribed</b>
<b>Individualized Work Opportunities @ EXPANCO (Advanced Supportive Employment)</b>	Grade 12+	Completion of academic requirements for grades 9 through 12 (required); must be a present client or making application to outside agencies. Students must be eligible for work as evidenced by holding a valid Social Security Card/I-9 work permit, or other appropriate government-issued clearance for work. ARD Placement	Community-based, paid vocational program. Upon completion of post-secondary goals, students in this program will typically continue with the support of outside agencies, or may become employed competitively. Students must hold a valid social security card, I-9 work permit, or other appropriate government-issued clearance for work. Students must demonstrate safety skills in a work-based environment.	Graduation or Separation from district followed by continued supportive or competitive employment	INDWRKOP 0845 1A/B, INDWRKOP 0846 IIA/B, INDWRKOP 0848 IIIA/B, INDWRKOP 0850 IV A/B, INDWRKOP 0852 VIA/B, INDWRKOP 0857, INDWRKOP 0859, INDWRKOP 0860, INDWRKOP 0861
<b>Project Search</b>	Grade 12+	Completion of academic requirements for grades 9 through 12 (required); ARD Placement	Students must be in their final year of enrollment in high school, have a social security card and be DARS eligible. Selection Committee process in effect with ARD approval of recommendation for placement.	Graduation followed by competitive employment	COMMUNITY INTERN PARTNERSHIP PROGRAM 0889 IA/B, 0891 IIA/B; CED 0855 AB and CED 0856L Community Transportation Elective
<b>Fort Worth Bridges and other Vocational Adjustment Cooperative (VAC)</b>	Grade 12 or Grade 12+	Completion of core requirements and electives through grade 11. Students must be eligible for work as evidenced by holding a valid Social Security Card/I-9 work permit, or other appropriate government-issued clearance for work. ARD Placement	Students must be able to access reliable transportation and hold soft skills, as well as direct skills, needed to obtain and to maintain competitive employment.	Graduation followed by competitive employment	Community Transportation Elective, CED 0855 1A/B, CED 0856 2 A/B, VAC 0865 IIA/B, VAC 0867 IIIA/B, VAC 0877 IVA/B, VAC 0887 VA/B

**To assist the persons responsible on your campus for scheduling students served in Special Education and taking the STAAR-EOC state assessment, the Special Education Department created the following five scenarios. Each scenario describes a possible Special Education student, with his/her respective instructional setting and state assessment. The Texas Education Agency is requiring that each Special Education student be enrolled in a course number that is aligned to the respective PEIMS number, according to the type of EOC assessment each student takes (e.g. regular or alternate).**

**If you have any questions, please do not hesitate to contact the Special Education Department at 817.814.2830.**

**Interactive Link to determine Graduation Codes and CCMR Codes**

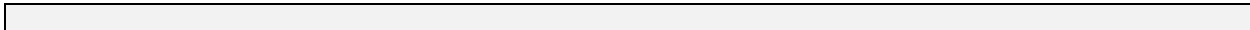
**Updated Spring 2022**

<https://4.files.edl.io/f074/02/07/22/204402-1a3a346e-6e8f-459b-bf18-ff610410970d.pdf>

**SCENARIO 1**

Special Education (Sp. Ed) student assessed with the STAAR/EOC assessment.

Sp. Ed student assessed with the <u>STAAR/EOC assessment (Can be General ED or Special ED setting)</u>	
<b>STAAR/EOC</b>	
<b>Local course number is:</b>	<b>PEIMS number is:</b>
<b>ELA:</b>	
3011 (ENG IA/B)	03220100
3031 (ENG IA/B) (Resource Setting)	03220100
3013 (ENG IIA/B)	03220200
3033(ENG IIA/B) Resource Setting)	03220200
<b>MATHEMATICS:</b>	
7051 (ALG IA/B) (General ED Setting)	03100500
7042 (ALG IA/B) (Resource Setting)	03100500
<b>SCIENCE:</b>	
7572 (BIO A/B) (General ED Setting)	03010200
<b>SOCIAL STUDIES:</b>	
8056 (USHISTSSR A/B) General ED Setting)	03340100



**SCENARIO 2**

Sp. Ed student instructed in the special education classroom (self-contained setting – RISE) and taking the alternate STAAR/EOC Alternate assessment

SpEd student in the <u>special education classroom</u> (self-contained setting – RISE) assessed with the <u>alternate STAAR/EOC assessment</u>	
<b>STAAR/EOC ALTERNATE</b>	
<b>Local course number is:</b>	<b>PEIMS number is:</b>
<b>ELA:</b>	
30197 (ENGLISH 1 ALT A/B)	03220107
30217 (ENGLISH 2 ALTA A/B)	03220207
80177 (ENGLISH 3 ALTA A/B)	03220300
<b>MATHEMATICS: (substitute courses for Mathematics)</b>	
70597 (ALGEBRA 1 ALT A/B)	03100507
<b>SCIENCE: (substitute courses for Science)</b>	
75597 (BIOLOGY ALT A/B)	03010207
<b>SOCIAL STUDIES: (substitute courses for Social Studies)</b>	
80177 (UNITED STATES HISTORY 1877 ALT A/B)	03340107

## Course Substitutions

There should not be any course substitution for the Foundation program. For some students, fulfilling the requirements of the Foundation program may not be possible in the same manner as other students without disabilities. The ARD committee will determine if a child cannot complete the Language Other than English (LOTE) or Physical Education (PE) requirements.

A credit allowed to be substituted for the LOTE or PE credits may NOT be used to satisfy any other graduation credit requirement.

### Options for Languages Other Than English (*TEC 28.025 (b-14) (1)*)

- After completing the first language course, if it appears a child cannot successfully complete a second year, they may take a course in a second language, a Special Topics in Language/Culture Course, another computer programming course, or take World History Studies or World Geography;
- Substitute two courses from English, math, science, or social studies; or
- Substitute two courses in career and technology education (CTE) or technology applications.

<p><b>FOREIGN LANGUAGE</b></p> <p><i>TEC 28.025(b-14)(1)</i></p>	<p><b>2 credits in a foreign language (including ASL) or 2 credits in computer programming language</b></p> <p>For students with disabilities, there are a variety of options:</p> <ol style="list-style-type: none"><li>1) After completing the first language course, if it appears they cannot successfully complete a second year - they may take a course in a second language, a Special topics in Language/Culture course, another computer programming course or take World History Studies or World Geography Studies.</li><li>2) Substitute two courses from english, math, science or social studies.</li><li>3) Substitute two courses in career and technology education (CTE) or technology applications.</li></ol> <p>Either the ARD Committee or the 504 Committee will determine if the student cannot complete the Language other than English (LOTE) requirements.</p> <p>A credit allowed to be substituted LOTE credit may NOT be used to satisfy any other graduation credit requirement</p>
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## Options for Physical Education (*TEC 28.024 (b-11)*)

- One credit in English Language Arts, mathematics, science, or social studies
- A locally designed course that meets the state criteria for substitution under state law, or
- One academic credit elective for the physical education requirement if the ARD committee determines that your child is unable to participate in physical activity.

### PHYSICAL EDUCATION

*TEC 28.025(b-11)*

#### 1 credit in a PE

For students with disabilities who are unable to participate in physical activity due to a disability or illness - They may substitute:

- 1) one credit in English language arts, mathematics, science, social studies,
- 2) a locally-designed course that meets the state criteria for substitution under state law, or
- 3) one academic credit elective for the physical education (PE) credit requirement if the ARD committee determines that the child is unable to participate in physical activity.

Either the ARD Committee or the 504 Committee will determine if the student cannot complete the PE requirement.

A credit allowed to be substituted PE credit may NOT be used to satisfy any other graduation credit requirement.

