

2025-2026 IRVING ISD HIGH SCHOOL COURSEBOOK



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Graduation Requirements

How to Use This Guide

This course description guide is provided for the convenience of parents and students in selecting courses for high school. Course listings follow the same order as the subject areas on the graduation program charts. Electives are listed within each subject area. The grade level indicated represents the normal progression of courses. Students may enroll for a course at a different grade level provided the prerequisite has been met. Some courses may be available only at selected campuses. Those are noted with a location code. No location indicates the course is offered at all high school campuses. All elective courses listed in this guide will be offered if enrollments are enough and if qualified teachers are available.

Graduation Requirements

All entering freshmen will default to the Foundation High School program with a Distinguished Level of Achievement which will include the completion of at least one endorsement and Algebra II; the endorsement may be changed if a new endorsement can be completed. Students who choose to graduate without an endorsement must wait until the end of the sophomore year and have parent or guardian permission. All endorsements and performance acknowledgements will be indicated on a student's transcript.

STAAR End of Course (EOC) Requirements for High School Students

High School students are required to pass five (5) End of Course (EOC) Assessments. The 5 EOC Assessments are: English I, English II, Algebra I, Biology, and U.S. History.

Department of Career and Technical Education (CTE)

Public Notification of Nondiscrimination in CTE Programs

It is the policy of Irving I.S.D. not to discriminate on the basis of race, color, national origin, gender or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 503 and 504 of the Rehabilitation Act of 1973; as amended. Irving I.S.D. will take steps to ensure that lack of English language skills will not be a barrier to admission and participation in all educational programs and services. Irving Independent School District offers the following Career and Technical Education programs: Agriculture, Food & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communications; Business, Management & Administration; Education & Training; Government & Public Administration; Health Science; Hospitality & Tourism; Human Services; Information Technology; Law, Public Safety, Corrections & Security; Manufacturing; Marketing, Sales & Service; Science, Technology, Engineering & Mathematics; and, Transportation, Distribution & Logistics. Admission to these programs is based on interest, age appropriateness and class space availability.

It is the policy of Irving I.S.D. not to discriminate on the basis of race, color, national origin, gender or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Educational Amendments of 1972; Section 503 and 504 of the Rehabilitation Act of 1973; as amended. Irving I.S.D. will take steps to ensure that lack of English language skills will not be a barrier to admission and participation in all educational programs and services.

Irving ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. For information about your rights or grievance procedures, contact the Title IX Coordinator at 2621 West Airport Freeway, 972-600-5215, and/or the section 504 Coordinator at 2621 West Airport Freeway, 972-600-5025.

Graduation Programs Class of 2018-2026

Irving ISD students will pursue the Foundation High School Program a Distinguished Level of Achievement upon entering 9th grade. Endorsement requirements are identified on the next page.

Foundation HS Program		Foundation with Endorsement(s)		Distinguished Achievement	
Subject Areas	Credits	Subject Areas	Credits	Subject Areas	Credits
English English I, II, III and an advanced English course	4	English same	4	English same	4
Comm. App./Prof. Comm. (Speech)***	½	Same	½	Same	½
Mathematics (including Algebra, I, Geometry, and an advanced math course)	3	Mathematics (including Algebra 1, Geometry, and two advanced math courses)	4	Mathematics (Algebra 1, Geometry, Algebra II, and an advanced math)	4
Science (Biology, IPC and one advanced course OR Biology and two advanced courses)	3	Science (Biology, IPC and two advanced courses OR Bio and three advanced courses)	4	Science Same as Foundation with Endorsement	4
Social Studies (World Geography, World History, US History, Government and Economics)	4	Social Studies same	4	Social Studies same	4
Physical Education **	1	Physical Education**	1	Physical Education**	1
Health	½	Health	½	Health	½
Languages Other Than English	2	Languages Other Than English	2	Languages Other Than English	2
Fine Arts	1	Fine Arts	1	Fine Arts	1
		Requirements of an Endorsement	See Next Page	Requirements of an Endorsement	See Next Page
Electives	3	Electives (including endorsement courses)	5	Electives (including endorsement courses)	5
Total Credits Required		22		26	
		26		26	

+ A student must earn the Distinguished Level of Achievement to be eligible for top 10% automatic admission.

**Credit for PE courses may be earned through participation in athletics or JROTC or appropriate private or commercially sponsored physical activity programs for a maximum of four credits, or through participation in marching band, cheerleading or drill team. Certain courses may replace this requirement. See page 14 for a list of those courses.

A student may graduate under the foundation high school program without an endorsement if, after the student's sophomore year, a committee including the student, the student's parent, and the counselor determine that it is in the best interest of the student to bypass the benefits of graduating with an endorsement. A student served by an ARD committee may also graduate without an endorsement.

In accordance with Texas Education Code (TEC), §28.0256, beginning with students enrolled in **12th grade** during the **2021-2022 school year**, each student must do one of the following in order to graduate:

- Complete and submit a Free Application for Federal Student Aid (FAFSA);
- Complete and submit a Texas Application for State Financial Aid (TASFA); or
- Submit a signed opt-out form.

Programas de Graduación Clase de 2018-2026

Al ingresar al 9º grado, los estudiantes de Irving seguirán el Plan de Secundaria Básico/Fundamental con una Especialidad o el Nivel de Desempeño Destacado. Los requisitos para las Especialidades se detallan en la página siguiente.

Programa Básico/Fundamental		Programa Básico/Fundamental con Especialidad(es)		Programa de Desempeño Destacado	
Materias	Créditos	Materias	Créditos	Materias	Créditos
Inglés Inglés I, II, III y un curso de Inglés Avanzado	4	Inglés igual	4	Inglés igual	4
Comunicación (Discurso)***	½	Igual	½	Igual	½
Matemáticas (incluyendo Álgebra I, Geometría, y un curso de matemáticas avanzado)	3	Matemáticas (incluyendo Álgebra I, Geometría, y dos cursos de matemáticas avanzados)	4	Matemáticas (Álgebra I, Geometría, Álgebra II y un curso avanzado)	4
Ciencias Naturales (Biología, IPC y un curso avanzado O Biología y dos cursos avanzados)	3	Ciencias Naturales (Biología, IPC y dos cursos avanzados O Biología y tres cursos avanzados)	4	Ciencias Naturales Igual que el Programa Básico/Fundamental con Especialidad	4
Ciencias Sociales (Geografía Mundial, Historia Mundial, Historia de EE.UU., Gobierno y Economía)	4	Ciencias Sociales igual	4	Ciencias Sociales igual	4
Educación Física**	1	Educación Física**	1	Educación Física**	1
Salud	½	Salud	½	Salud	½
Otros Idiomas además del Inglés	2	Otros Idiomas además del Inglés	2	Otros Idiomas además del Inglés	2
Bellas Artes	1	Bellas Artes	1	Bellas Artes	1
		Requisitos de una especialidad	Vea la página siguiente	Requisitos de una especialidad	Vea la página siguiente
Electivos	3	Electivos (incluyendo cursos de especialidad)	5	Electivos (incluyendo cursos de especialidad)	5
Total de Créditos Requeridos		22		26	
		26		26	

+ El estudiante debe obtener el Programa de Desempeño Destacado para ser elegible an ingreso automático del 10% de los mejores alumnos (Top 10%)

** Crédito para los cursos de educación física se puede obtener a través de la participación en atletismo, JROTC o programas apropiados de actividad física privados o patrocinados comercialmente para un máximo de cuatro créditos, o a través de la participación en la banda de marcha, porristas o drill team.

*** Ciertos cursos pueden sustituir este requisito – consulte la página 14.

Un estudiante puede graduarse bajo el programa básico/fundamental sin una especialidad. Si después del segundo año de estudios, un comité que incluye al estudiante, padre del estudiante, y el consejero/a determina que lo mejor para el estudiante, es sobrepasar los beneficios de graduarse con una especialidad. Un estudiante recibiendo servicios de un comité ARD también puede graduarse sin una especialidad.

Graduation Programs Class of 2027 and Beyond

Irving ISD students will pursue the Foundation High School Program a Distinguished Level of Achievement upon entering 9th grade. Endorsement requirements are identified on the next page.

Foundation HS Program		Foundation with Endorsement(s)		Distinguished Achievement	
Subject Areas	Credits	Subject Areas	Credits	Subject Areas	Credits
English English I, II, III and an advanced English course	4	English same	4	English same	4
Comm. App./Prof. Comm. (Speech)*** (recommended but not required)	½	Same	½	Same	½
Mathematics (including Algebra, I, Geometry, and an advanced math course)	3	Mathematics (including Algebra 1, Geometry, and two advanced math courses)	4	Mathematics (Algebra 1, Geometry, Algebra II, and an advanced math course)	4
Science (Biology, IPC and one advanced course OR Biology and two advanced courses)	3	Science (Biology, IPC and two advanced courses OR Bio and three advanced courses)	4	Science Same as Foundation with Endorsement	4
Social Studies (World Geography OR World History, US History, Government and Economics)	3	Social Studies same	3	Social Studies same	3
Physical Education **	1	Physical Education**	1	Physical Education**	1
Health (recommended but not required)	½	Health	½	Health	½
Languages Other Than English	2	Languages Other Than English	2	Languages Other Than English	2
Fine Arts	1	Fine Arts	1	Fine Arts	1
		Requirements of an Endorsement	See Next Page	Requirements of an Endorsement	See Next Page
Electives	4	Electives (including endorsement courses)	6	Electives (including endorsement courses)	6
Total Credits Required		22		26	

+ A student must earn the Distinguished Level of Achievement to be eligible for top 10% automatic admission.

**Credit for PE courses may be earned through participation in athletics or JROTC or appropriate private or commercially sponsored physical activity programs for a maximum of four credits, or through participation in marching band, cheerleading or drill team. Certain courses may replace this requirement. See page 14 for a list of those courses.

A student may graduate under the foundation high school program without an endorsement if, after the student's sophomore year, a committee including the student, the student's parent, and the counselor determine that it is in the best interest of the student to bypass the benefits of graduating with an endorsement. A student served by an ARD committee may also graduate without an endorsement.

In accordance with Texas Education Code (TEC), §28.0256, beginning with students enrolled in **12th grade** during the **2021-2022 school year**, each student must do one of the following in order to graduate:

- Complete and submit a Free Application for Federal Student Aid (FAFSA);
- Complete and submit a Texas Application for State Financial Aid (TASFA); or
- Submit a signed opt-out form.

Programas de Graduación Clase de 2027 a Adelante

Al ingresar al 9º grado, los estudiantes de Irving seguirán el Plan de Secundaria Básico/Fundamental con una Especialidad o el Nivel de Desempeño Destacado. Los requisitos para las Especialidades se detallan en la página siguiente.

Programa Básico/Fundamental		Programa Básico/Fundamental con Especialidad(es)		Programa de Desempeño Destacado	
Materias	Créditos	Materias	Créditos	Materias	Créditos
Inglés Inglés I, II, III y un curso de Inglés Avanzado	4	Inglés igual	4	Inglés igual	4
Comunicación (Discurso)*** (recomendado pero no es obligatorio)	½	Igual	½	Igual	½
Matemáticas (incluyendo Álgebra I, Geometría, y un curso de matemáticas avanzado)	3	Matemáticas (incluyendo Álgebra I, Geometría, y dos cursos de matemáticas avanzados)	4	Matemáticas (Álgebra I, Geometría, Álgebra II y un curso avanzado)	4
Ciencias Naturales (Biología, IPC y un curso avanzado O Biología y dos cursos avanzados)	3	Ciencias Naturales (Biología, IPC y dos cursos avanzados O Biología y tres cursos avanzados)	4	Ciencias Naturales Igual que el Programa Básico/Fundamental con Especialidad	4
Ciencias Sociales (Geografía Mundial O Historia Mundial, Historia de EE.UU., Gobierno y Economía)	3	Ciencias Sociales	3	Ciencias Sociales	3
Educación Física**	1	Educación Física**	1	Educación Física**	1
Salud (recomendado pero no es obligatorio)	½	Salud	½	Salud	½
Otros Idiomas además del Inglés	2	Otros Idiomas además del Inglés	2	Otros Idiomas además del Inglés	2
Bellas Artes	1	Bellas Artes	1	Bellas Artes	1
		Requisitos de una especialidad	Vea la página siguiente	Requisitos de una especialidad	Vea la página siguiente
Electivos	4	Electivos (incluyendo cursos de especialidad)	6	Electivos (incluyendo cursos de especialidad)	6
Total de Créditos Requeridos		22		26	

+ El estudiante debe obtener el Programa de Desempeño Destacado para ser elegible an ingreso automático del 10% de los mejores alumnos (Top 10%)

** Crédito para los cursos de educación física se puede obtener a través de la participación en atletismo, JROTC o programas apropiados de actividad física privados o patrocinados comercialmente para un máximo de cuatro créditos, o a través de la participación en la banda de marcha, porristas o drill team.

*** Ciertos cursos pueden sustituir este requisito – consulte la página 14.

Un estudiante puede graduarse bajo el programa básico/fundamental sin una especialidad. Si después del segundo año de estudios, un comité que incluye al estudiante, padre del estudiante, y el consejero/a determina que lo mejor para el estudiante, es sobrepasar los beneficios de graduarse con una especialidad. Un estudiante recibiendo servicios de un comité ARD también puede graduarse sin una especialidad.

Irving ISD Graduation Programs

Class of 2018 and Beyond - Endorsements

Endorsement Areas * In order to earn an endorsement, a student must also complete 4 Math and 4 Science credits.	
STEM	<p>Student must take Foundation curriculum including Algebra II, Chemistry, and Physics and ONE of the following:</p> <ol style="list-style-type: none"> Coherent sequence of four credits in the following Programs of Study (including one advanced course): <ul style="list-style-type: none"> Computer Science Engineering – Aerospace, Aviation, Biomedical, Civil or Environmental Aviation Science Five credits in Mathematics: <ul style="list-style-type: none"> Algebra I, Geometry, Algebra II, and two additional advanced courses Five credits in Science: <ul style="list-style-type: none"> Biology, Chemistry, Physics, and two additional advanced science courses In addition to Alg. II, Chemistry, and Physics, a sequence of three additional courses from 1,2 or 3 above.
Business and Industry	<p>Student must take Foundation curriculum and ONE of the following:</p> <ol style="list-style-type: none"> Coherent sequence of four credits in the following Programs of Study (including one advanced course): <ul style="list-style-type: none"> Agriculture Architecture and Construction Arts, AV Technology, and Communications Business, Marketing and Finance Transportation, Distribution and Logistics Information Technology Manufacturing Hospitality and Tourism Four English elective credits including THREE levels of ONE of these: <ul style="list-style-type: none"> Journalism, Broadcast Journalism, Newspaper, Yearbook, Debate
Public Services	<p>Student must take Foundation curriculum and ONE of the following:</p> <ol style="list-style-type: none"> Coherent sequence of four credits in the following Programs of Study (including one advanced course): <ul style="list-style-type: none"> Education and Training Health Science Human Services - Cosmetology Law and Public Service Human and Social Services Four courses in JROTC
Arts & Humanities	<p>Student must take Foundation Curriculum and ONE of the following:</p> <ol style="list-style-type: none"> A total of five social studies credits Four levels of the same Language other than English, including ASL Two levels of two different Languages other than English Coherent sequence of four credits in one or two disciplines of fine arts Four English elective advanced courses which may include English 4 and beyond
Multidisciplinary Studies	<p>Student must take Foundation Curriculum and ONE of the following:</p> <ol style="list-style-type: none"> Four advanced courses from within one endorsement area or among endorsement areas that are not in a coherent sequence. Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics Four credits in AP or dual credit selected from the foundation subject areas, Languages other than English, or fine arts

***Not all programs of study are available at all campuses. Some programs are limited in enrollment by space or staffing limitations.**

Irving ISD Graduation Programs

Class of 2018 and Beyond - Performance Acknowledgements

A student may earn a performance acknowledgement for outstanding performance in:

- ☐ **Dual credit classes:**
 - 12 college hours with a grade of 3.0 out of 4.0
 - Earning an associate degree while in high school
- ☐ **Bilingualism and Biliteracy:** An average GPA of 80 in English courses and satisfying ONE of the following:
 - At least three credits in the same Language other than English with at least an 80 average
 - Demonstrated proficiency at level four or higher in a Language other than English with a minimum GPA of 80
 - A score of 3 or higher on a College Board AP exam in a Language other than English
- ☐ **If the student is an English language learner, he or she must also have exited the ESL program and scored Advanced High on the TELPAS.**
- ☐ **AP Test:** Score a 3 or above on a College Board AP exam
- ☐ **PSAT, ACT-Plan, SAT, ACT:** Score the following on **one** of these exams:
 - Earning a score on the PSAT/NMSQT that qualifies a student for recognition as a Commended Scholar or higher, or recognized as a National Hispanic Scholar or National Achievement Scholar
 - Achieving the college readiness benchmark score on the ACT-PLAN in at least two of the four subjects
 - Earning a combined critical reading and mathematics score of at least 1250 on the SAT
 - Earning a composite score of 28 on the ACT examination
- ☐ **Nationally or internationally recognized business or industry certificate:**
 - Qualification for an APPROVED federal, state, or industry certification or license related to the student's program of study. An approved list will be provided by the Texas Education Agency.

Programas de Graduación de Irving ISD

Clase de 2018 en Adelante - Especialidades

Aéreas de Especialidad* Con el fin de obtener aprobación, un estudiante también debe completar 4 créditos de Matemáticas y 4 de Ciencia.	
Ciencias, Tecnología, Ingeniería y Matemáticas (STEM, por sus siglas en inglés)	<p>El estudiante debe tomar el plan de estudio Básico/Fundamental incluyendo Algebra II, Química, y Física y UNO de los siguientes:</p> <ol style="list-style-type: none"> Secuencia coherente de cuatro créditos en los siguientes Programas de Estudio (incluyendo un curso avanzado): <ul style="list-style-type: none"> Ciencias de la computación Ingeniería - Aeroespacial, Aeronáutica, Biomédica, Civil o Ambiental Ciencia de Aviación Cinco créditos en Matemáticas: <ul style="list-style-type: none"> Algebra I, Geometría, Algebra II, más dos cursos avanzados Cinco créditos en Ciencias: <ul style="list-style-type: none"> Biología, Química, Física, más dos cursos de ciencia avanzados Además de Algebra II, Química y Física, una secuencia de tres cursos adicionales de los números 1, 2 o 3 de arriba.
Negocios e Industria	<p>El estudiante debe tomar el plan de estudio Básico/Fundamental y UNO de los siguientes:</p> <ol style="list-style-type: none"> Secuencia coherente de cuatro créditos en los siguientes Programas de Estudio (incluyendo un curso avanzado): <ul style="list-style-type: none"> Agricultura Arquitectura y Construcción Artes, Tecnologías Audio/Vídeo, y Comunicaciones Negocios, Mercadotécnica y Finanzas Transportación, Distribución y Logística Tecnologías de la Información Manufactura Hostelería y Turismo Cuatro cursos electivos de Inglés incluyendo TRES niveles de UNO de estos: <ul style="list-style-type: none"> Periodismo, Periodismo Televisivo, Periódico, Libro de Año Escolar, Debate
Servicios Públicos	<p>El estudiante debe tomar el plan de estudio Básico/Fundamental y UNO de los siguientes:</p> <ol style="list-style-type: none"> Secuencia coherente de cuatro créditos en los siguientes Programas de Estudio (incluyendo un curso avanzado): <ul style="list-style-type: none"> Educación y Formación Ciencias de la Salud Servicios Humanos - Cosmetología Leyes y Servicios Públicos Servicios Humanos y Sociales Cuatro cursos en JROTC
Artes y Humanidades	<p>El estudiante debe tomar el plan de estudio Básico/Fundamental y UNO de los siguientes:</p> <ol style="list-style-type: none"> Un total de cinco créditos en ciencias sociales Cuatro niveles del mismo Idioma diferente al inglés, incluyendo ASL Dos niveles de dos diferentes Idiomas diferentes al inglés Secuencia coherente de cuatro créditos en una o dos disciplinas de las bellas artes Cuatro cursos avanzados electivos de inglés cuales pueden incluir inglés 4 y más
Estudios Multidisciplinarios	<p>El estudiante debe tomar el plan de estudio Básico/Fundamental y UNO de los siguientes:</p> <ol style="list-style-type: none"> Cuatro cursos avanzados en un área de especialidad o entre áreas de especialidades que no están en secuencia coherente. Cuatro créditos en cada una de las materias básicas incluyendo inglés IV y química, y/o física. Cuatro créditos en AP o doble crédito seleccionados de las áreas básicas, idiomas diferentes al inglés, o bellas artes.

*No todos los programas de estudio están disponibles en todos los campus.

Programas de Graduación de Irving ISD

Clase de 2018 en Adelante - Reconocimientos por Desempeño

Un estudiante puede obtener un reconocimiento por desempeño sobresaliente en:

- **Cursos de doble crédito:**
 - 12 créditos universitarios con un promedio (GPA) de 3.0 en una escala de 4.0
 - Obtener un título asociado en la escuela secundaria
- **Bilingüismo y alfabetización** – promedio (GPA) mínimo de 80 en cursos de inglés y cumplir con una de las siguientes:
 - Por lo menos tres créditos del mismo idioma diferente al inglés (LOTE por sus siglas en inglés) con un promedio mínimo de 80
 - Demostrar habilidad en el nivel cuatro o superior en LOTE con un promedio (GPA) mínimo de 80
 - Una puntuación de 3 o más en un examen de Prueba Avanzada (AP por sus siglas en inglés) del College Board en un idioma diferente al inglés
- **Si el alumno es un estudiante de inglés como segundo idioma (ESL por sus siglas en inglés), también debe haber superado el programa de ESL y haber recibido el rango Avanzada Alto en el TELPAS**
- **Prueba Avanzada (AP por sus siglas en inglés)**
 - Un 3 o más en un examen AP
- **PSAT, ACT-Plan, SAT, ACT** – debe anotar lo siguiente en **uno** de estos exámenes:
 - Obtener un resultado en el PSAT/NMSQT que califique al estudiante para el reconocimiento comendado o más, o reconocimiento como un Hispano Académico Nacional o Académico Nacional de Logro
 - Lograr resultados de norma de preparación universitaria en el ACT-PLAN en al menos dos de las cuatro materias
 - Obtener un resultado combinado de por lo menos 1250 en las secciones de lectura crítica y matemáticas del examen SAT
 - Obtener un resultado promedio de 28 en el examen ACT
- **Un certificado de negocios o industria reconocidos a nivel nacional o internacional:**
Capacitación para un certificado APROBADO federalmente, estatalmente, o una certificación de industria o licencia relacionada al programa de estudio del estudiante. Una lista aprobada será proporcionada por la Agencia de Educación de Texas.

Irving Independent School District Grade Classification of Students

1. Students are classified once a year at the end of the school year in June. The only exception is for those students who attend summer school or those students who participate in a district program designed for grade acceleration. The classification of students who attend summer school is revised, if applicable, in August. Only seniors are reclassified when correspondence, CBE or Dual course grades are received.
2. If an error is discovered in a student's classification or if the school receives new records that reflect more or fewer credits, the counselors submit a correction immediately.
3. Classification of students is based on the number of credits earned and courses completed as indicated below. There are two exceptions to this rule: students in Gifted and Talented (G/T) programs and new immigrant students. The credit and classification breakdown are published in the student handbook.
 - Freshmen 0 - 5½ credits
 - Sophomore 6 - 11½
 - Junior 12 - 17½
 - Senior 18 +
4. Classification of G/T students - G/T students who earn 6 or more credits in middle school will remain in the normal progression of their class.
5. Classification of ELL Immigrant Students – 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. Students who have graduated from high school in another country may not be enrolled regardless of age. Please refer these students to a post-secondary institution and/or adult ESOL classes.
6. Three Year Graduates - Students who wish to graduate in three years will need to consult with their counselor no later than the end of their sophomore year. Three-year graduates may be classified as seniors during the course of their third year of high school or mid-term if they have enough credits to graduate.

Early College and Dual Credit Program Offerings

Irving ISD has an instructional partnership with Dallas College to offer dual credit courses for students enrolled in Irving ISD high schools. The dual credit program allows students the opportunity to earn college credit while in high school. Dual credit courses are offered in a variety of subject areas within the core curriculum and Career and Technical Education pathways. Irving ISD also has two Early College programs that offer specific associates degree options. See your counselor for more information.

Texas Success Initiative Assessment (TSIA)

Students who are interested in taking dual credit courses, must show readiness to take college level courses. The TSIA 2.0 is the assessment instrument used to determine college readiness for non-exempt students, as required by the Texas Success Initiative and approved by the Texas Higher Education Coordinating Board (THECB).

TSIA helps determine whether students are ready for college-level coursework in English language arts and reading (ELAR) and mathematics. These are foundational subjects for other college coursework. The results of the TSIA 2.0 assessment, in conjunction with academic background, goals, and interests, are used by school counselors to place students in the appropriate courses that match their achievement level.

Not all students will need to take the TSIA 2.0. If college readiness standards are met on the End-of-Course examination (EOC), SAT, ACT, or in a college preparatory course, they may be exempt or waived from taking the TSIA.

To learn more about TSIA, contact your school counselor. If you are viewing this digitally, then click [here](#) for more details.

English Language Arts

English I

[B15140 ENG 1 03220100]

Grade: 9 Credit: 1

English I students read extensively across multiple genres from world literature, including selected stories, dramas, novels, poetry, and informational texts. This course asks students to explore the possible influences of the historical context on a literary work and respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing.

English I Honors

[B15189 ENG 1 H 03220100]

Grade: 9 Credit: 1

Students are expected to read and write beyond the scope of the general education ELAR course in depth and rigor. This course offers material to challenge and encourage the students' independent, critical, and creative thinking skills. The student will refine oral and written communication skills as well as read all forms of literature extensively and analytically in preparation for AP English courses.

English II

[B15240 ENG 2 03220200]

Grade: 10 Credit: 1 PR: English 1

English II students read extensively across multiple genres from world literature, including selected stories, dramas, novels, poetry, and informational texts. Students learn literary forms and terms associated with the selections being read and interpret the possible influences of the historical context on a literary work. This course asks students to respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing.

English II Honors

[B15279 ENG 2 GT H 03220200]

Grades: 9 Credit: 1 PR: English I GT

[B15269 ENG 2 H 03220200]

Grades: 10 Credit: 1 PR: English I

Students are expected to read and write beyond the scope of the general education ELAR course in depth and rigor. This course offers material to challenge and encourage the students' independent, critical, and creative thinking skills. This college preparatory course explores the subject matter in depth and complexity. The student will refine oral and written communication skills as well as read all forms of literature extensively and analytically in preparation for AP English courses. Students enrolled in GT sections will engage in the development of innovative and advanced products aligned with the state goal of gifted education through the year-long, R4D research process.

English III

[B15340 ENG 3 03220300]

Grades: 11 Credit: 1 PR: English II

English III students read extensively across multiple genres from American literature, including selected stories, dramas, novels, poetry, and informational texts. They learn literary forms and terms associated with the selections being read and interpret the possible influences of the historical context on a literary work. Students respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing. Students will engage in college test prep including SAT, ACT, & TSI.

English III – Dual Credit (H)

[B15639 ENG 3 H/D 03220300]

Grade: 10-12 Credit: 1 PR- English ii

Students in this course will read and write extensively and analytically. Students will apply college-ready skills to essays, texts of multiple genres, and participate in meaningful class discussions around close-reading skills. Meets graduation requirements for high school and college credit.

AP English III (English Language and Composition)

[B15369 APENGLAN A3220100]

Grades: 10-11 Credit: 1

PR: English II

In AP English Language and Composition, students will read nonfiction texts through the eyes of a writer, exploring the choices writers and speakers make to persuade their audience. By analyzing how writing is composed, students will be able to construct their own arguments. AP Language students will perfect reading closely, analyzing, and interpreting a piece of writing, gathering and consolidating information from different sources, and crafting evidence-based arguments. Students enrolled in this course will be required to take the English Language and Composition Advanced Placement Exam.

English IV

[B15450 ENG 4 03220400]

Grade: 12 Credit: 1

English IV students read extensively across multiple genres from British literature, including selected stories, dramas, novels, poetry, and informational texts. Students learn literary forms and terms associated with the selections being read and interpret the possible influences of the historical context on a literary work. Throughout this course, students respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing. CPELA is embedded in this course.

For online course info access: www.irvingisd.net/Page/2790



English IV-Dual Credit (H)

[B15469 ENG 4 H/D 03220400]

Grade: 12 Credit: 1

Students enrolled in this course will read and write extensively and analytically. Students will apply college-ready skills to essays, texts of multiple genres, and participate in meaningful class discussions around close-reading skills. This course meets the graduation requirements for high school and college credit.

AP English IV (English Literature and Composition)

[B15499 APENGLAN GT A3220200]

[B15479 APENGLIT H A3220200]

Grades: 11-12 (10 for GT students who have completed English II)

Credit: 1

PR: English II

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. In AP English Literature and Composition, students will examine how authors and poets create meaning through their rich, purposeful use of language. Students will write and refine essays about literature, develop the skills of analysis and composition that will allow them to communicate their interpretations effectively. Students enrolled in this course will be required to take the AP Exam.

English V G/T

[B15629 ENG 5 GT 03221800]

Grade: 12 Credit: 1

PR: English IV

This course is designed as an in-depth genre study for gifted students in language arts that includes: poetry, drama, fiction, artistic movements and various literary periods, and film studies. Additionally, students focus on composing college admission and scholarship essays as well as perfecting their college applications.

AP Capstone Seminar

[16191/2 APSMNR N1130026]

Grades: 10-12 Credit: 1/Elective

PR: Honors or AP Experience or Capstone Teacher Approval

This foundational course provides students with opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students explore real-world issues through a cross curricular lens, consider multiple points of view to develop deep understanding of complex issues, connect these issues to their own lives, and work both collaboratively and independently to explore real world issues. Students enrolled in this course will be required to take the AP Exam. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the **AP Capstone Diploma™**. Alternatively, students who earn scores of 3 or higher in AP Seminar and AP Research will receive the **AP Seminar and Research Certificate™** signifying their attainment of college-level academic and research skills. Students who complete this course successfully are eligible to receive 0.5 credits for Speech.

AP Capstone Research

[16561/2 APRES N1100014]

Grades: 11-12 Credit: 1/Elective

PR: AP Capstone Seminar

The second course in the Capstone experience allows students to design, plan and conduct a year-long research based investigation on a topic of individual interest. Through this mentored inquiry and investigation, students demonstrate the ability to connect scholarly understanding to real-world problems and issues. Students further their skills acquired in the AP Seminar Course by understanding research methodology, employing ethical research practices, accessing, analyzing, and synthesizing information as they address a research question. The course culminates in a mentored academic thesis paper and a presentation, performance, or exhibition with an oral defense. Students enrolled in this course will be required to take the AP Exam. Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the **AP Capstone Diploma™**. Alternatively, students who earn scores of 3 or higher in AP Seminar and AP Research will receive the **AP Seminar and Research Certificate™** signifying their attainment of college-level academic and research skills.

Reading

Reading I-II

[1750112 READ1 03270700]

[1752112 READ2 03270800]

Grade Read1-9 Credit: 1/2-1

Grade Read2-10, 11 Credit: 1/2-1 PR: Read 1

This course is designed for students in need of additional practice in reading fundamentals. Students will be given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students will learn how various texts are organized and how authors choose language for communicating effectively to the reader. These strategies will be applied in texts across all content areas.

Speech

Professional Communications

[16394 PROFCOMM 13009900]

Grades: 9-12 Credit: 1/2

This course is designed to help students develop effective communication skills for successful participation in professional and social life beyond high school. The content includes verbal and nonverbal messages, listening skills, critical thinking and the problem-solving process. Students who complete this course successfully are eligible to receive 0.5 credits for Speech.

For online course info access: www.irvingisd.net/Page/2790



Debate I-III

[1620112 DEBATE1 03240600]

[1621112 DEBATE2 03240700]

[1622112 DEBATE3 03240800]

Grades: 9-12 Credit: 1/2-1 PR: Teacher R

This course is designed as an advanced course, which prepares students for competition in speech events in local and statewide tournaments. Students are involved in practice debates and oral interpretation. Students who complete this course successfully are eligible to receive 0.5 credits for Speech.

Communications Applications-Dual Language

[16324 COMMAP DUAL LANG 03241400]

Grades: 9-12 Credit: ½

This course is designed to help students identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. This course is only offered at MacArthur HS.

Journalism

Journalism

[16101/2 JRNLSM 03230100]

Grades: 9-10 Credit: 1 I, M, N

This is a beginning course for students interested in journalism. The course includes gathering facts, developing interviewing skills, writing news stories, determining newsworthiness, studying journalistic style and techniques of writing headlines and captions, writing features and editorials, and studying the freedom and responsibility of the press.

Advanced Journalism: Newspaper Production I, II, III

[16141/2 NEWSP 1 03230140]

[16151/2 NEWSP 2 03230150]

[16161/2 NEWSP 3 03230160]

Grades: 10-12 Credit: 1 I, M, N

These courses are designed to teach students the techniques necessary to write news, features, and editorials suitable for the student newspaper. Students perform a variety of tasks by fact-gathering, developing interviewing skills, writing news stories, determining news-worthiness, studying and applying editing skills, studying journalistic style, using techniques of writing headlines and captions, studying the freedom and responsibility of the press, and the principles and ethics of journalism. These courses require considerable time outside school hours.

Advanced Journalism: Yearbook/Magazine Production I

[16111/2 YRBKMAG1 03230110]

[16121/2 YRBKMAG2 03230120]

[16131/2 YRBKMAG3 03230130]

Grades: 10-12 Credit: 1 I, M, N

Students enrolled in these courses write magazine features and editorials suitable for the student yearbook, as well as the techniques of specialized headline and caption writing. It covers the principles of design, layout, graphics, typography, and production techniques necessary for the production and publishing of a student yearbook. Students develop the skills needed to produce a yearbook, evaluating the components required for a quality product. Students learn elements and processes of magazine-type journalistic products, including the school yearbook and literary magazine. A part of the curriculum is selling advertising and the products. These courses require considerable time outside school hours.

Independent Study in Journalism

[16181/2 IND JOUR 03231000]

Grades: 10-12 Credit: ½-1 I, M, N

Students will create publications, using advanced desktop publishing software, assembling all the elements-type, illustrations, graphs, tint and photographs on the computer screen. This course provides advanced skills and knowledge for students entering post-secondary education institutions or the work-force. PREREQUISITE: Teacher Approval.

Alternate Speech Credit

0.5 credit of speech may be earned through participation in one of the courses listed below. These courses demonstrate proficiency in delivering clear verbal messages; choosing effective nonverbal behaviors; listening for desired results; applying valid critical-thinking and problem-solving processes; and evaluating communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. *19TAC 74.11.3

Professional Communications
Debate I-III
Oral Interpretation
AVID 2

Academic Decathlon
AP Capstone Seminar
Independent Study in English ESL

AVID

AVID I

[B85440 AVID1 N1290001]

Grade: 9 Credit: 1/Elective PR- AVID Site Team Approval

AVID (Advancement Via Individual Determination) The 9th grade AVID elective course will serve as a review of the AVID philosophy & strategies for transitioning students. Students will work on academic growth, personal goals, and communication. Students will increase their awareness of their personal contributions to their learning by participating in activities that incorporate strategies focused on writing, critical thinking and inquiry, collaboration, organization & critical reading (WICOR). While adjusting to the high school setting, students engage in activities centered around exploring college/career opportunities, building self-confidence and communication skills. Students wishing to take this course must apply and be approved by the campus AVID Site Team.

AVID II

[B85450 AVID2 N1290002]

Grade: 10 Credit: 1/Elective PR- AVID Site Team Approval

AVID (Advancement Via Individual Determination) The 10th grade AVID elective course will refine AVID strategies (WICOR) to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals as well as their higher-level critical thinking and public speaking. Students will increase their awareness of their personal contributions to their learning through involvement in school and community via their Service Learning Project. Strategies in analytical reading and critical thinking will focus on understanding complex texts and increase writing ability. Lastly, students will narrow down their colleges & careers of interest based on their personal interests and goals. Students wishing to take this course must apply and be approved by the campus AVID Site Team.

Students who complete AVID II successfully are eligible to receive 0.5 credits for Speech.

AVID III

[B85460 AVID3 N1290030]

Grade: 11 Credit: 1/Elective PR- AVID Site Team Approval & Completion of AVID II

AVID (Advancement Via Individual Determination) The 11th grade AVID elective course is the first part in a Junior/Senior seminar course that focuses on skills expected of first-year college students. Students participate in college bound activities, intensive research, and confirm their post-secondary plans. Students engage in analytical reading and writing, tutorial study groups, critical thinking, and planning (WICOR). Students wishing to take this course must apply and be approved by the campus AVID Site Team.

AVID IV

[B85470 AVID4 N1290033]

Grade: 12 Credit: 1/Elective PR- AVID Site Team Approval & Completion of AVID II & III

AVID (Advancement Via Individual Determination) The 12th grade course is the second part of the Junior/Senior Seminar that focuses on skills expected of a 2nd year college student. Students engage in analytical reading and writing, collaborative study groups, critical thinking, and a book study. Students are presented and supported through college-bound activities, methodologies, and tasks that include applications for college, FAFSA, scholarships, and career exploration.

English as a Second Language

English SOL IA

[B15510 ENGSOL1A 03200600]

Grade: 9 Credit: 1 PR: LPAC

English SOL IA students are expected to plan, draft, edit, and revise written compositions on a regular basis in a variety of forms including literary, expository and argumentative texts. An emphasis is placed on organizing logical arguments with clearly expressed related definitions, thesis, and evidence. English I students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work. The ESOL IA course is designed for beginning English-speaking students and includes an emphasis on development of listening, speaking, reading, and writing.

English SOL IB

[B15520 ENGSOL1A 03200600]

Grade: 9

Credit: 1

PR: LPAC

English SOL IB students are expected to read across multiple genres, at different proficiency levels, from world literature, including selected stories, dramas, novels, poetry, and informational texts. This course asks students to explore the possible influences of the historical context on a literary work and respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing. The ENGSOL IB course is designed for beginning English-speaking students, who have been in the country for a year or more. It emphasizes developing listening, speaking, reading, and writing skills.

English SOL IIA

[B15530 ENGSOL2A 03200700]

Grades: 10-12 Credit: 1

PR: LPAC

English SOL II A English students read extensively across multiple genres from world literature, including selected stories, dramas, novels, poetry, and informational texts. Students learn literary forms and terms associated with the selections being read and interpret the possible influences of the historical context on a literary work. This course asks students to respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing. ENGSOL IIA course is designed for intermediate English-speaking students and emphasizes developing listening, speaking, reading and writing skills.

English SOL IIB

[B15540 ENGSOL2A 03200700]

Grades: 10-12 Credit: 1

PR: LPAC

English SOL II B English students read extensively across multiple genres of world literature, including selected stories, dramas, novels, poetry, and informational texts. Students learn literary forms and terms associated with the selections being read and interpret the possible influences of the historical context on a literary work. This course asks students to respond to these texts by regularly planning, drafting, editing, and revising written compositions in various forms, such as literary analysis, expository essays, and argumentative writing. The ENGSOL IIB course is designed for intermediate English-speaking students, who have been in the country for two years or more. It emphasizes developing listening, speaking, reading, and writing skills.

Reading I ESL

[B15560 READ 1 ESL 03270700]

Grades: 9-12 Credit: 1/2-1

PR: LPAC

This course is designed for students in need of additional practice in reading and writing fundamentals. Students will be given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students will learn how various texts are organized and how authors choose language for communicating effectively to the reader. All of these strategies will be applied in texts across all content areas. This course in ESL reading is designed for beginning English-speaking students in grades 9-12 and focuses on the development of reading through comprehension strategies, study techniques, and composition.

Reading II ESL

[B15570 READ 2 ESL 03270800]

Grades: 9-12 Credit: 1/2-1

PR: LPAC

This course is designed for students in need of additional practice in reading and writing fundamentals. Students will be given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students will learn how various texts are organized and how authors choose language for communicating effectively to the reader. All of these strategies will be applied in texts across all content areas. This course in ESL reading is designed for intermediate English-speaking students in grades 9-12. The course seeks to provide continued development in reading through comprehension strategies, study techniques, and composition.

Independent Study in English ESL

[B15500 INDENG ESL 03221800]

Grades: 9-12 Credit: 1/2-1

PR: LPAC and concurrent enrollment in English SOL 1A and 1st year in US Schools.

This course is designed for Beginning and Intermediate English language learners in grades 9-12. The course will provide the foundational skills for listening, speaking, reading, and writing in English. Emphasis will be placed on language acquisition through the development of academic English and literacy across content areas. Students will work on building reading skills, grammar and writing conventions. Students who complete this course successfully are eligible to receive 0.5 credits for Speech.

English Language Development Acquisition (ELDA)

[B15780 ELDA 1 03200800]

Grades: 9-10 Credit: 1

PR: Newcomer students; 1st year in US schools and with gaps in education. LPAC and concurrent enrollment in English SOL 1A

English Language Development and Acquisition (ELDA) is designed to provide instructional opportunities for secondary recent immigrant students with little or no English proficiency. These students have scored at the negligible/very limited academic language level of the state-approved English oral language proficiency tests. This course enables students to become increasingly more proficient in English in all four language domains. It addresses cognitive, linguistic, and affective needs.

Mathematics

Algebra I

[B25130 ALG 1 03100500]

Grade: 9 Credit: 1 PR: 8th grade math or equivalent

This course will build on the knowledge and skills acquired in middle school mathematics. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Graphing technology is used as an integral part of instruction throughout this course.

Geometry

[B25340 GEOM 03100700]

Grades: 10-11 Credit: 1 PR: Algebra I

Students will connect previous knowledge by exploring concepts covering coordinate & transformational geometry, logical arguments and constructions, proof and trigonometry, 2D and 3D figures; circles and probability. Students apply geometric properties to real-world situations. The course also provides students the opportunity to study and analyze three-dimensional objects.

Geometry Honors

[B20872 GEOM GT H 03100700]

Grades: 9 Credit: 1 PR: Algebra I

[B25359 GEOM H 03100700]

Grades: 10-11 Credit: 1 PR: Algebra I

Students will connect previous knowledge by exploring concepts covering coordinate & transformational geometry, logical arguments and constructions, proof and trigonometry, 2D and 3D figures; circles and probability. Students apply geometric properties to real-world situations. The course also provides students the opportunity to study and analyze three-dimensional objects. The Geometry Honors course places an emphasis on a greater depth in all topics.

Algebraic Reasoning

[B26640 ALGREA 03102540]

Grades: 11-12 Credit: 1 PR: Algebra I

In this course, students will build on and extend previous knowledge of algebraic concepts. Students will continue to develop mathematical reasoning related to algebraic understandings and processes. Students will study a variety of functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data.

Statistics

[B26650 STATS 03102530]

Grades: 11-12 Credit: 1 PR: Algebra I

Students 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. In order to help students be successful, it is recommended that students have additional math classes before enrolling in this class.

Algebra II

[B25200 ALG2 03100600]

Grades: 10-12 Credit: 1 PR: Algebra I

This course continues from Algebra I and extends the study of functions to include quadratic functions, square root functions, rational functions, exponential functions and logarithmic functions. The relationship between algebra and geometry is also illustrated in the study of conic sections. Graphing technology is used throughout this course.

Algebra II Honors

[B25229 ALG 2 GT H 03100600]

Grades: 10 Credit: 1 PR: Algebra I

[B25219 ALG 2 H 03100600]

Grades: 10 Credit: 1 PR: Algebra I

The Honors course in Algebra II follows the scope and sequence of the general education Algebra II course. Throughout the course the emphasis is on a greater depth in preparation for AP level courses.

Precalculus

[B25400 PRECALC 03101100]

Grades: 11-12 Credit: 1 PR: Alg I, Alg II, Geometry

This course is designed to deepen students' mathematical understanding and fluency with algebra and trigonometry. It extends their ability to make connections and apply concepts and procedures at higher levels. While it prepares students to enter Calculus and other advanced courses, it also provides a strong foundation for the use of mathematical models in real-world situations. Graphing technology is used throughout this course.

AP Precalculus

[B25589 APPRECALC A3100100]

Grades: 10-12 Credit: 1 PR: Alg I, Alg II, Geometry

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. 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. During this course, students acquire and apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus. Students enrolled in this course will be required to take the AP Exam.

AP Calculus AB

[B25519 APCALAB A3100101]

Grades: 11-12 Credit: 1 PR: Precalculus

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Course content includes the study of continuity, limits, derivatives, integration, basic differential equations, and the definite integral. Graphing technology is used throughout this course. Students are required to take the AP Exam.

AP Calculus BC

[B25529 APCALBC A3100102]

Grade: 11-12 Credit: 1 PR: Precalculus

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Students continue the study of calculus with topics such as Taylor polynomials and approximations, advanced techniques of integration, improper integrals, logistic differential equations, parametric, polar, and vector functions. Graphing technology is used throughout this course. Students are required to take the AP Exam.

AP Statistics

[B25539 APSTATS A3100200]

Grades: 10-12 Credit: 1 PR: Geometry & Algebra II

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. This course consists of a full year of work in exploratory analysis of data, planning a study, probability, and statistical inference. In college, at least one statistics course is typically required for majors such as engineering, psychology, sociology, health sciences and business. Graphing technology is used as an integral part of instruction throughout this course. Students are required to take the AP Exam.

College Testing Prep Course

[96301/2 or 96304 PSAT/SAT/ACT B5000002]

Grade: 9-12 Credit: ½ local

The PSAT/SAT preparation course includes the reading, writing, and math content and skills to prepare students for taking the PSAT/SAT and TSI college tests.

College Preparatory Course in Mathematics

[B26660 CPMAT CP111200]

Grade: 11-12 Credit: 1 PR: Algebra I/Geometry/3rd Math

This is a senior-level course designed to improve the skills needed to enter credit-bearing math courses in college. Topics include a review of real numbers, symbolic manipulation of objects, graphing linear equations, basic geometry, solving rational and radical equations, and functions. Cumulative review will be spiraled throughout the course.

Science

Biology

[B35140 BIO 03010200]

Grades: 9-10 Credit: 1

In Biology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics, including biomolecules and structures and functions of cells and viruses; mechanisms of genetics; biological evolution; matter cycling and energy flow in organisms; living systems; and ecosystems and the environment.

Biology Honors

[B35189 BIO H 03010200]

Grades: 9-10 Credit: 1

This course explores the same concepts as biology using Honors strategies. Use of these strategies coupled with depth and complexity of concepts in preparation for AP science courses.

Integrated Physics and Chemistry (IPC)

[B35740 IPC 03060201]

Grades: 9 - 11 Credit: 1

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific methods during investigations, 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.

Chemistry

[B35400 CHEM 03040000]

Grades: 10-12 Credit: 1

PR: Successful Completion Biology and Algebra I

In Chemistry, students conduct laboratory and field investigations, use scientific methods 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.

Chemistry Honors

[B35429 CHEM GT 3040000]

Grades: 9 Credit: 1 PR: Biology 8 Honors/GT

[B35419 CHEM H 03040000]

Grades: 10-12 Credit: 1

PR: Successful Completion Biology and Algebra I

This course explores the same concepts as general ed chemistry using Honors strategies. Use of these strategies coupled with depth and complexity of concepts in preparation for AP science courses.

Physics

[B35500 PHYSICS 03050000]

Grades: 10-12 Credit: 1 PR: Successful Completion Algebra I

In Physics, students conduct laboratory and field investigations, use scientific methods 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; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

AP Biology

[B35199 APBIO A3010200]

Grades: 11-12 Credit: 1

PR: Biology; Completion of or Concurrent Enrollment in Chemistry

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Advanced Placement Biology, a college level biology course, involves more in-depth treatment of biological topics-the study of life. Research, field work, and laboratory experiences are an integral part of the course. Students must be active investigators, using higher-order thinking skills. Students will be required to take an AP exam.

AP Chemistry

[B35439 APCHEM A3040000]

Grades: 10-12 Credit: 1

PR: Chemistry; Completion of or Concurrent Enrollment in Algebra 2

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Advanced Placement Chemistry, a college-level chemistry course, involves more in-depth treatment of solution chemistry, organic chemistry, biochemistry, and analysis of substances. Research, field work, and laboratory experiences are an integral part of the course. Students must be active investigators, using higher-order thinking skills. Students will be required to take the AP exam.

AP Physics 1: Algebra-Based

[B35529 APPHYS1 A3050003]

Grades: 10-12 Credit: 1

PR: Alg 1 and Geometry; Completion of or Concurrent Enrollment in Alg 2

Advanced Placement Physics, a college-level physics course, involves content organized around seven underlying principles called the big ideas, which encompass the core scientific principles, theories, and processes of physics that cut across traditional content boundaries and provide students a broad way of thinking about the physical world. This approach will enable students to spend less time on mathematical routines and more time engaged in inquiry-based learning of essential concepts, and it will help them develop the critical thinking and reasoning skills necessary to engage in the science practices used throughout their study of this course. Students will be required to take the AP exam.

AP Physics 2: Algebra-Based

[B36499 APPHYS2 A3050004]

Grades: 11-12 Credit: 1

PR: Physics or AP Physics 1 & Completion of or Concurrent Enrollment in Precalculus

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Advanced Placement Physics, a college-level physics course, involves content organized around seven underlying principles called the big ideas, which encompass the core scientific principles, theories, and processes of physics that cut across traditional content boundaries and provide students a broad way of thinking about the physical world. This approach will enable students to spend less time on mathematical routines and more time engaged in inquiry-based learning of essential concepts, and it will help them develop the critical thinking and reasoning skills necessary to engage in the science practices used throughout their study of this course. The content for this course offers additional depth and topics not introduced in AP Physics 1 such as mechanics, electricity, nuclear physics, quantum physics, and magnetism. Students will be required to take the AP exam.

AP Physics C: Electricity and Magnetism

[B36484 APPHYSCE A3050002]

Grades: 11-12 Credit: 1

PR: AP Physics 1 or 2 and Completion of or Concurrent Enrollment in Calculus

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. AP Physics C is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. Students will be required to take an AP exam.

AP Physics C: Mechanics

[B36424 APPHYSCM A3050006]

Grades: 11-12 Credit: 1

PR: AP Physics 1 or 2 and Completion of or Concurrent Enrollment in Calculus

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. AP Physics C is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course. Students will be required to take an AP exam.

AP Environmental Science

[B35329 APENVIR A3020000]

Grades 10-12 Credit: 1 PR: Alg 1 and 2 yrs HS lab science

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Advanced Placement Environmental Science, a college-level environmental science course, involves a more in-depth treatment of 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 or preventing them. Students will be required to take an AP exam.

Astronomy

[B35600 ASTRMY 03060100]

Grade: 11-12 Credit: 1 PR: Algebra I and IPC or Chemistry

Astronomy is an advanced science course for students that have passed Algebra I and either Integrated Physics and Chemistry or Chemistry. It is designed to allow students an opportunity to conduct laboratory and field investigations, use scientific methods, and work collaboratively to make informed decisions using critical thinking and scientific problem-solving skills. Students will study astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration.

Environmental Systems

[B35300 ENVIRSYS 03020000]

Grade: 11-12 Credit: 1 PR: Biology & 1 Physical Science

Environmental Systems is for students who have passed Biology and need an elective science course. Students who have earned credit for Environmental Systems Pre-Biology, are not eligible for this course. In Environmental Systems, students conduct laboratory and field investigations, use scientific methods 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, and changes in environments. Students will assess the plant ecosystem, erosion processes, petroleum energy, crop production, and genetically engineered plants and their importance to solving world hunger.

Social Studies

World Geography Studies

[B45140 W GEO 03320100]

Grade: 9 Credit: 1

Students enrolled in this course will study the interaction of man and his environment in space and time. This study includes current developments around the world which affect physical and cultural settings.

World Geography Studies Honors

[B45549 W GEO H 03320100]

Grade: 9 Credit: 1

This course is designed to provide students an opportunity to obtain a more in-depth study of the interaction of man and his environment in space and time. Emphasis is placed on the development of knowledge, skills, and attitudes that will enable students to research projects, analyze materials and draw conclusions based on academic reasoning in preparation for AP Social Studies courses.

World Geography Studies Honors-Dual Language

[45571 W GEO H DUAL LANG]

Grade: 9 Credit: 1

This course is designed to provide students an opportunity to obtain a more in-depth study of the interaction of man and his environment in space and time. Emphasis is placed on the development of knowledge, skills, and attitudes that will enable students to research projects, analyze materials and draw conclusions based on academic reasoning in preparation for AP Social Studies courses. This course is only offered at MacArthur HS.

AP Human Geography

[B45189 APHUMGEO A3360100]

Grade: 9-12 Credit: 1

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students will employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. The AP Human Geography exam is mandatory and may result in students earning college credit hours. This course may be substituted for World Geography Studies. Students will be required to take the AP exam.

World History Studies

[B45440 W HIST 03340400]

Grade: 10 Credit: 1

In this course, students will participate in a survey study of world history and of world cultures, their problems and their achievements from earliest times. Students will acquire a greater insight and understanding of their own times and own country as a major player on the world stage. Major concentration is on those events which have shaped the modern world.

World History Studies Honors

[B45479 W HIST H 03340400]

Grade: 10 Credit: 1

This program is designed to provide students an opportunity to obtain a more in-depth study of world history. Emphasis is placed on developing knowledge, skills, and attitudes that will enable students to research projects, analyze materials, and draw conclusions based on academic reasoning. Course content includes studies of the history and development of a variety of world cultures in preparation for AP Social Studies courses.

AP World History Studies

[B45489 AP W HIST A3340400]

Grade: 10 Credit: 1

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. In AP World History students investigate significant events, individuals, developments, and processes in the period from approximately 1200 C.E. to the present. The course also addresses prerequisite information about the period of approximately 8000 B.C.E. to 1200 C.E. to provide the necessary context to understand modern World History. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; making historical comparisons; utilizing reasoning about contextualization, causation, and continuity and change over time; and developing historical arguments. Students will be required to take the AP exam.

United States History Studies Since 1877

[B45340 US HIST 03340100]

Grade: 11 Credit: 1

Content for the second-year study of United States history includes significant events, issues, and problems after the period of reconstruction, emphasizing present-day issues that have their roots in the past.

United States History EOC

[96231/2 or 96234 USHISTEOC 84400001]

Grade: 11-12 Credit: 1/2 – 1 (Local Credit)

This course is designed for students who did not pass the High School U. S. History STAAR EOC. Teachers will utilize a United States History Since 1877 curriculum that includes a focus on student data and testable U. S. History standards. The overarching goal is to prepare students to successfully retake the assessment.

United States History-Dual Credit (H)

[B45359 US HIST H/DC 03340100]

Grade: 11 Credit: 1

This course will provide students the opportunity to enroll in North Lake College courses History 1301 and 1302. The first semester will be devoted to the history of the United States, beginning with the European background and first discoveries. The second semester will encompass the history of the United States from the Reconstruction era to the present day. This course meets graduation requirements for high school and college credit.

AP United States History

[B45369 APUSHIST A3340100]

Grade: 11 Credit: 1

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. In preparation for the advanced placement U.S. History comprehensive examination, this course will provide an in-depth study of U. S. History from discovery to the present. The program is designed to provide information and skills with an intensive focus on writing. The AP U. S. History exam is mandatory and may result in students earning college credit hours. Students will be required to take the AP exam.

United States Government

[45234 GOVT 03330100]

Grade 12 Credit: 1/2

This course is a general survey of the development and mechanics of the United States government. It includes studies in the following areas: foundations of American government, federalism, legislative branch, executive branch, and judicial branch.

For online course info access: www.irvingisd.net/Page/2790



United States Government-Dual Credit (H)

[45244 GOVT/H/DC 03330100]

Grade: 12 Credit: 1/2

Students will have the opportunity to enroll in a North Lake College American government survey course. This one-semester course will be devoted to the three branches of government, the legislative process, the executive and bureaucratic structure, the judicial process, civil rights and liberties, and domestic policies. This course meets the graduation requirements for high school and college credit.

AP United States Government

[45254 APUSGOVT A3330100]

Grade: 12 Credit: 1/2

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. This course provides an in-depth study of American government. Emphasis is placed on concepts of political participation, leadership, decision-making, political institutions, nature of laws, and the rights and responsibilities of American citizenship. Students are required to take the AP exam.

AP Government and Politics: Comparative

[45284 APCPGOV A3330200]

Grade: 12 Credit: 1/2

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Prerequisite - Government & Politics: United States AP

This course will provide students with the conceptual tools necessary to develop an understanding of some of the world's diverse political structures and practices. The course encompasses the study of both specific countries and their governments and general concepts used to interpret the political relationships and institutions found in virtually all national politics. Students are required to take the AP exam.

Economics with Emphasis on the Free Enterprise System & Its Benefits

[46134 ECO-FE 03310300]

Grade: 12 Credit: 1/2

The purpose of this course is to develop an understanding and an appreciation of the principles of economics. Students will study the fundamentals of the American free enterprise system and learn how to become full participants in the American economic and political systems.

For online course info access: www.irvingisd.net/Page/2790



Economics with Emphasis on the Free Enterprise System-Dual Credit (H)

[46144 ECO-FE H/DC 03310300]

Grade: 12 Credit: 1/2

Students will have the opportunity to enroll in a North Lake Community College economics course. This one-semester course emphasizes national income determination, money and banking, the role of monetary and fiscal policy, international trade and finance. This course meets the graduation requirements for high school and college credit.

AP Economics: Macro with Emphasis on the Free Enterprise System & Its Benefits

[46154 APMACECO A3310200]

Grade: 12 Credit: 1/2

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. In addition to stressing the merits of the free enterprise system, our economy will be compared with other economies by examining the role and importance of economic theory, markets, and competition. Higher-level thinking skills will be a vital part of this course of study. Students are required to take the AP exam.

Personal Financial Literacy

[45874 PFL 03380082]

Grade: 10-12 Credit: 1/2

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will 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.

Personal Financial Literacy- Economics

[45884 PFL-ECO 03380083]

Grade: 12 Credit: 1/2

The Personal Financial Literacy and Economics 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. Through their studies in this combined Personal Financial Literacy and Economics course, students will gain the ability to lead productive and financially self-sufficient lives.

AP European History

[B45499 APEUHIST A3340200]

Grade: 12 Credit: 1

AP European History is an introductory college-level European history course. Students cultivate their understanding of European history through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like interaction of Europe and the world; economic and commercial developments; cultural and intellectual developments; states and other institutions of power; social organization and development; national and European identity; and technological and scientific innovation.

Psychology

[45514 PSYCH 03350100]

Grades: 11-12 Credit: 1/2

This course provides an opportunity for the student to study some of the elements of individual and social psychology. They will learn how the knowledge and methods of psychology are applied to the solution of human problems. Content for the course is designed to give students some insight into human behavior and attitude development relating to ideas and people.

For online course info access: www.irvingisd.net/Page/2790



AP Psychology

[45524 APPSYCH A3350100]

Grades: 11-12 Credit: 1/2

Students will learn the foundational concepts that detail how and why people think and behave the way they do, connecting psychological concepts and theories to real-life scenarios, and analyzing research studies in psychology. The AP exam is mandatory and may result in the student earning college credit hours.

Investigations of Psychology Honors

[45564 PSYCHINV H 3380032]

Grades: 11-12 Credit: 1/2

2nd Semester course for AP Psychology.

Sociology

[45614 SOC 03370100]

Grades: 11-12 Credit: 1/2

Sociology is the study of human social groups. Various group types are examined in an attempt to understand man's social behavior. Topics include the urban community, the handicapped, teen peer groups, as well as social problems such as slums and juvenile delinquency. Current events, projects and an independent research paper may be required.

For online course info access: www.irvingisd.net/Page/2790



Social Studies Research Methods Honors Academic Decathlon

[45804 SSRES H 03380003]

Grades: 10-12 Credit: 1/2

PR Teacher R

In this elective course, students will conduct advanced research on a selected topic in social studies using qualitative and quantitative methods of inquiry. Essay writing, testing, public speaking, higher level and critical thinking skills will be stressed. Emphasis is on preparation for Academic Decathlon.

Special Topics in Social Studies Honors Academic Decathlon

[45744 SPTSS H 03380002]

Grades: 10-12 Credit: 1/2

PR: Teacher R

This elective course provides students the opportunity to apply the knowledge and skills of the social sciences to a variety of topics and issues. Problem solving and decision making are important elements of the course as is the communication of information in written, oral, and visual forms. Emphasis is on preparation for Academic Decathlon.

Special Topics-African American Studies

[45734 SPTSS3 03380032]

Grades: 9-12 Credit: 1/2

African American studies is a one-semester course of African American history with emphasis on African heritage and the history of the African American experience, including recent events.

Special Topics-Juvenile Justice and Civic Responsibility

[45764 SPTSS4 03380042]

Grades: 9-12 Credit: 1/2

This problem-based course is designed to provide students with practical information and problem-solving opportunities that will help them succeed in our law-related society. They will have the opportunity to discuss and analyze the most current law-related public issues.

Special Topics-Latin American Studies

[45724 SPTSS2 03380022]

Grades: 9-12 Credit: 1/2

Students enrolled in this course will examine the land, people, and history of Hispanic America (Mexico, Central America, and South America) from pre-Columbian cultures to the present. The relationship between Latin America and the U.S. in international issues will also be addressed.

Special Topics in Social Studies - Dual Language

[45824 SPTSS DUAL LANG 03380002]

Grades: 9-12 Credit: 1/2

Students enrolled in this course will provide students the opportunity to apply the knowledge and skills of the social sciences to a variety of topics and issues.

Physical Education

Students are encouraged to take PE during the 9th and 10th grade.

Lifetime Fitness and Wellness Pursuits

[56111/2 LIFEFIT PES00051]

Grades: 9-12 Credit: 1

Lifetime Fitness and Wellness Pursuits offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. This course equips students to assess individual fitness levels according to the five components of health-related fitness: cardiovascular health, muscular strength, muscular endurance, flexibility, and body composition. Personal fitness assessments encourage students to design fitness programs to meet their individual fitness goals. Students will participate in a variety of physical activities for attaining personal fitness and lifetime wellness.

For online course info access: www.irvingisd.net/Page/2790



Skill-Based Lifetime Activities

[56121/2 SBLIFE PES00056]

Grades: 9-12 Credit: 1

Skill-Based Lifetime Activities offers students the opportunity to demonstrate mastery in the basic sports skills, basic sport knowledge, and health and fitness principles. Students experience opportunities that promote physical literacy and lifetime wellness. Students participate in a minimum of one lifelong activity from each of the following five categories during the course. Those are: (A) Target games (B) Striking and fielding (C) Fitness activities (D) Rhythmic activities and (E) Innovative games and activities with international significance.

Lifetime Recreation and Outdoor Pursuits

[56161/2 LIFEROP PES00053]

Grades: 9-12 Credit: 1

Lifetime Recreation and Outdoor Pursuits provides opportunities for students to develop skills and competency in five or more life-long recreational and outdoor pursuits by using an integrated curriculum of science, math, writing, critical thinking skills, and technology. The focus is on outdoor activities such as: archery, orienteering, survival skills, CPR/first aid, trip planning, angling, hiking, backpacking, camping, outdoor cooking, and conservation/environmental issues.

Health

Health Education

[55144 HITH ED 03810100]

Grades: 9-12 Credit: 1/2

In this course, the following areas are covered: mental health, tobacco, alcohol and drugs, body systems, nutrition, consumer education, safety and first aid, CPR, environmental health, diseases, reproductive health, and human growth and development. This course may be offered as an online course for a fee.

For online courses info access: www.irvingisd.net/Page/2790



Health Education-Dual Language

[55154 HEALTH DL]

Grades: 9-12 Credit: 1/2

In this course, the following areas are covered: mental health, tobacco, alcohol and drugs, body systems, nutrition, consumer education, safety and first aid, CPR, environmental health, diseases, reproductive health, and human growth and development. This course is only offered at MacArthur HS.

Athletics

All athletics must be approved by a coach.

Baseball
Basketball Boys
Basketball Girls
Cross Country Boys
Cross Country Girls
Football
Golf (fall tryout)
Soccer Boys
Soccer Girls
Softball
Swimming
Tennis
Track Boys
Track Girls
Trainer
Volleyball
Water Polo Boys
Water Polo Girls
Wrestling Boys
Wrestling Girls

Sports Medicine I

[55301/2 or 55304 SPORTMD 1 N1150040]

Grades: 9-12 Credit: 1/2-1

This course is designed for athletic training students. Students will gain an understanding of the treatment, rehabilitation and prevention of athletic injuries. Students will be instructed in basic First Aid techniques. They will learn basic principles of athletic training including, but not limited to, modalities, stretching techniques, and taping of athletic injuries and basic first aid. Students will have the opportunity to become certified in First Aid and CPR. Additionally, students will gain an understanding of human anatomy such as bones, muscles, tendons, ligaments, and other anatomical landmarks.

Sports Medicine II

[55311/2 or 55314 SPORTMD 2 N1150041]

Grades: 10-12 Credit: 1/2-1 PR Sports Medicine I

This course is designed for athletic training students. It provides an in-depth study and application of the components of sports medicine including but not limited to: Basic rehabilitative techniques; therapeutic modalities; wound care, taping and bandaging techniques, prevention, recognition, and care of musculoskeletal injuries; injuries to the young athlete; drugs in sports; modern issues in sports medicine. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time homework and time required working with athletes and athletic teams.

Languages Other Than English

District Criteria: Students will be assigned to a language class based on their readiness, as determined by a district placement instrument. Those who complete the district placement process will also be accredited for the levels they are placed in. For instance, if a student is placed in Spanish 3, they will receive credit for both Spanish 1 and 2.

French and Spanish Level I

[65101/2 FREN 1 03410100]

[B65410 SPAN 1 03440100]

Grades: 9-12 Credit: 1

Level I introduces the beginning foreign language student to the basic reading, speaking, and writing skills and concepts necessary for communication in daily situations. Pronunciation skills will be developed through the accurate reproduction of native sounds. French is only offered at Irving High School and MacArthur High School.

French and Spanish Level II

[65111/2 FREN 2 03410200]

[B65420 SPAN 2 03440200]

Grades: 9-12 Credit: 1 PR: Level I or District Criteria

Level II reviews the basic structures learned in Level I and continues with additional structures, expressions, and vocabulary. Listening and speaking skills will continue to be developed. Conversation in different social situations will be stressed through creative oral activities. French is only offered at Irving High School and MacArthur High School.

French and Spanish Level III Honors

[65131/2 FREN 3 H 03410300]

[65441/2 SPAN 3 H 03440300]

Grades: 10-12 Credit: 1 PR: Level II or District Criteria

During the third year of study, students are provided opportunities to comprehend native speakers in controlled situations, sustain conversation on familiar subjects, do intensive and extensive reading, and write original compositions. Activities are geared toward the development of higher-level and critical-thinking skills, which address a variety of learning styles. French is only offered at Irving High School and MacArthur High School.

AP French Language Level IV

[65141/2 APFR LAN A3410100]

Grades: 11-12 Credit: 1 PR: French III or District Criteria

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Emphasis is placed on the use of French for active communication as the student develops a deeper understanding of spoken French in various contexts, and a vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary. Extensive training in organizing and writing compositions is emphasized. Students will be required to take the AP exam. French is only offered at Irving High School and MacArthur High School.

AP Spanish Language Level IV

[65451/2 APSPALAN A3440100]

Grades: 9-12 Credit: 1 PR: Spanish III or District Criteria

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. AP Spanish Language emphasizes the use of Spanish for active communication and encompasses listening and speaking skills, reading comprehension, grammar, and composition. Course objectives help students to learn at a higher level to comprehend formal and informal spoken Spanish as well as accurate reading of newspaper and magazine articles and synthesis of several sources. Students will be required to take the AP exam.

AP Spanish Literature Level V

[65471/2 APSPA LIT A3440200]

Grades: 11-12 Credit: 1 PR: AP Spanish Language

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Students read and analyze selected works from Spain and Latin American Literature. This is done both orally and in writing. Students are prepared to understand a lecture in Spanish and to participate actively in discussions on literary topics in Spanish. Required authors include Jorge Luis Borges, Federico Garcia Lorca, Gabriel Garcia Márquez, Ana Maria Matute, and Miguel de Unamuno. Students will be required to take the AP exam.

Spanish Seminar

[65521/2 or 65524 SEMSPAN1 03440910]

Grades: 9-12 Credit: 1 PR: Spanish I, II, III

This course will offer students the opportunity to gain and develop a deeper understanding of the spoken Spanish language and the diversity of the Spanish speaking countries and their cultures.

Advanced Language for Career Applications

[65541/2 ADVLCA 11403700]

Grades: 10-12 Credit: 1 PR: Spanish III

This course provides students with instruction in terminology that prepares students to communicate in a language other than English in a professional, business, or industry setting. Students will learn how to communicate in the target language and use culturally appropriate language when addressing diverse audiences in different workplace environments.

Visual Arts

Art I

[B66100 ART 1 03500100]

Grades: 9-12 Credit: 1

Art I is a foundation course for the student who plans to pursue advanced studies in art and for the student who simply enjoys creating and learning about art. This course provides students with experience in expressing themselves imaginatively through drawing, painting, sculpture, ceramics, fibers, and printmaking.

For online courses information access: www.irvingisd.net/Page/2790



Art 1, Art Appreciation Honors Dual Credit 1301

[66114 ART1APP 03500110]

Grades: 9-12 Credit: .5- 1

This is a Texas Common Course Number. This is a Dallas College Core Curriculum course.

Students will gain a general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. (3 Lec.)

Coordinating Board Academic Approval Number 5007035126

Art II Ceramics

[66231/2 ART 2 CRMC 03500900]

Grades: 10-12 Credit: 1 PR: Instructor Approval/Art I

Students will apply the elements and principles of design to work in clay. In Ceramics II, the student will learn to create functional and non-functional clay pieces using pinch, coil, and slab techniques. As the student progresses, they will learn to use the potter's wheel and explore a variety of glazes and firing processes. Students will be required to keep a sketchbook.

Art II Drawing

[66201/2 ART2DRAW 03500500]

Grades: 10-12 Credit: 1 PR: Instructor Approval/Art I

The serious art student will explore drawing in its many forms by using a wide variety of media and techniques. Students will use drawing as a source of inspiration for works of art in other two and three-dimensional media. Students will be required to keep a sketchbook and present a portfolio of work. This class is a prerequisite for AP 2D and AP Studio Art Drawing Portfolio.

Art II Fibers

[66221/2 ART 2 FBRS 03500800]

Grades: 10-12 Credit: 1 PR: Instructor Approval/Art I

Students will work with yarn, fibers, and fabrics and will explore quilting, weaving, basketry, tie-dying, and batik. Students will create wearable, usable, and decorative items and will study the importance of the textile arts in history. Students will keep a sketchbook and present a portfolio of work.

Art II Jewelry– Making

[66241/2 ART2JWLR 03501100]

Grades: 10-12 Credit: 1 PR: Instructor Approval/Art I

Students will apply the elements and principles of design to jewelry. Beginning students will learn basic fabricating techniques and will work with precious and non-precious metals, glass, wood, and other materials. Students will also learn the techniques of soldering and casting. Students will keep a sketchbook and present a portfolio of work.

Art II Painting

[66211/2 ART2PATG 03500600]

Grades: 10-12 Credit: 1 PR: Instructor Approval/Art I

This class will familiarize the student who has excellent drawing and design skills with wet media techniques and production. Media used will include, but will not be limited to, watercolor, oil, acrylic, tempera, and ink. Students will explore color theory and historical styles in painting and will complete realistic, abstract, and non-objective work. Students will be expected to keep a sketchbook and present a portfolio of work.

Art II Sculpture

[66251/2 ART2SCLP 03501800]

Grades: 10-12 Credit: 1 PR: Instructor Approval/Art I

Students will apply the elements and principles of design to sculpture. The serious art student will explore a variety of media such as wood, wire, plaster, and found objects for three-dimensional sculptures. Students will be required to keep a sketchbook and present a portfolio of work.

Art III Ceramics

[66331/2 ART3CRMC 03501800]

Grades: 11-12 Credit: 1 PR: Instructor Approval/Ceramics II

Students will continue to develop advanced skills in hand building and wheel thrown work. A strong emphasis will be placed upon personal expression and the refinement of form in functional and sculptural ceramics. Students will explore a variety of glazes and firing processes and will formulate their own glazes. Students will be required to keep a sketchbook and present a portfolio of work.

Art III Drawing

[66301/2 ART3DRAW 03501300]

Grades: 11-12 Credit: 1 PR: Instructor Approval/Drawing II

Students will continue to strengthen skills in drawing with a variety of media and techniques. A strong emphasis will be placed on developing a personal style of drawing. Each student will work independently on a variety of assignments. Students will be required to keep a sketchbook and present a portfolio of work.

Art III Fibers

[66321/2 ART3FBRS 03501600]

Grades: 11-12 Credit: 1 PR: Instructor Approval/Art II Fibers

Students will build upon experiences gained in Fibers II. An emphasis will be placed upon personal expression and selection of media and technique. Students will research fiber-related topics and will create a series of fiber constructions. Students will be required to keep a sketchbook and present a portfolio of work.

Art III Jewelry-Making

[66341/2 ART3JWLR 0350200]

Grades: 11-12 Credit: 1

PR: Instructor Approval/Art II Jewelry

Students will continue to develop skills in jewelry fabrication and casting. Advanced techniques, such as multiple stage soldering, and stone setting will be introduced. The historical, cultural, and ceremonial aspects of jewelry as a form of art and human adornment will be examined. Students will be required to keep a sketchbook and present a portfolio of work.

Art III Painting

[66311/2 ART3PATG 03501400]

Grades: 11-12 Credit: 1 PR: Instructor Approval/Art II Painting

Students will build upon experiences gained in Painting II. An emphasis will be placed upon personal expression and selection of media and technique. Students will research contemporary and historical painters and will create a series of paintings. Students will be required to keep a sketchbook and present a portfolio of work.

Art III Sculpture

[66351/2 ART3SCLP 03501900]

Grades: 11-12 Credit: 1 PR: Instructor Approval/Art II Sculpture

Students will continue to apply the principles and elements of design to the creation of works in wood, wire, clay, plaster, sheet metal, and found objects. Students will be required to keep a sketchbook and present a portfolio of work.

Art IV Ceramics

[66431/2 ART4CRMC 03502700]

Grade: 12 Credit: 1

PR: Instructor Approval/Art III Ceramics

Students will create a thematic portfolio of ceramic work in an area approved by the instructor. The scope of the portfolio will demonstrate exemplary achievement in hand building, wheel throwing, and glazing techniques. Students should have a minimum of ten exhibition quality pieces for their portfolios. Students will be required to keep a sketchbook and present a portfolio of work.

Art IV Drawing

[66401/2 ART4DRAW 03502300]

Grades: 12 Credit: 1

PR: Instructor Approval/Art III Drawing

Each student will continue to work independently to more firmly establish a personal style of drawing that illustrates their expertise in a wide range of media/ techniques. Students will be required to keep a sketchbook and present a portfolio of work.

Art IV Fibers

[66421/2 ART4FBRS 03502600]

Grade: 12 Credit: 1

PR: Instructor Approval/Art III Fibers

Fibers IV is an advanced studio course for the serious student interested in fibers. Personal expression will be an emphasis in a fiber media (yarn, rope, raffia and other materials) that the student excelled in working with in Fibers III. Students will study the history of fibers from prehistoric to post-modern times. Students will be required to keep a sketchbook and present a portfolio of work.

Art IV Jewelry-Making

[66441/2 ART4JWLR 03502900]

Grade: 12 Credit: 1

PR: Instructor Approval/Art III Jewelry

Students will continue to apply the elements and principles of design to jewelry making while developing skills in using such advanced techniques as multiple stage soldering and stone setting. Gem analysis and identification by name and grade will be added. Students will create a thematic portfolio of jewelry in an area approved by the instructor. Students will be required to keep a sketchbook and present a portfolio of work.

Art IV Painting

[66411/2 ART4PAIN 03502400]

Grade: 12 Credit: 1

PR: Instructor Approval/Painting III

Each student will work independently to establish a personal style of painting. Each student will exhibit a body of work that reflects a concentration of their expertise in a wide range of media and techniques. Students will be required to keep a sketchbook and present a portfolio of work.

Art IV Sculpture

[66491/2 ART4SCLP 03502800]

Grade: 12 Credit: 1 PR: Instructor Approval/Art III Sculpture

Each student will continue to work independently to more firmly establish a personal style of sculpture that illustrates their expertise in a wide range of media/techniques. Students will be required to keep a sketchbook and present a portfolio of work.

AP Art - 2D Design Portfolio

[66361/2 AP 2D DP A3500400]

Grade: 11-12 Credit: 1

PR: Instructor Approval Portfolio/Art II

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. This course is an advanced studio art course in which the student demonstrates mastery of 2D design through graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, or printmaking. Students will compile a portfolio that meets current College Board requirements for AP. Students will be required to take the AP exam. Senior students will participate in the Senior Show.

AP Art - 3D Design Portfolio

[66371/2 AP 3D DP A30500500]

Grade: 11-12 Credit: 1

PR: Instructor Approval/Portfolio/Art II

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. This advanced studio art course allows the student to demonstrate mastery of 3D design through figurative or non-figurative sculpture, architectural models, metal work, ceramics or three-dimensional fiber arts. Students will compile a portfolio that meets current College Board requirements for AP. Students will be required to take the AP exam. Senior students will participate in the Senior Show.

AP Studio Art Drawing

[66461/2 APSTARTD A3500300]

Grade: 11-12 Credit: 1

PR: Instructor Approval/Portfolio/Art II Drawing

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. AP Art IV is an advanced studio course for the college-bound and art career-oriented student. It differs from AP Art 2D Design Portfolio in that it concentrates exclusively on advanced drawing. Students will compile an exemplary portfolio that meets current College Board Requirements for Advanced Placement. Students will be required to take the AP exam. Senior students will participate in the Senior Show.

AP Art History

[66451/2 APHISART A3500100]

Grades: 10-12 Credit: 1 PR: Instructor Approval

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. AP Art History is an advanced placement course for the college-bound student. An understanding and enjoyment of architecture, sculpture, painting, and other art forms within historical and cultural contexts are studied. In the course, students examine major forms of artistic expression from the past and present and from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Students will be required to take the AP exam.

Dance

Dance I

[69101/2 DANCE 1 03830100]

Grades: 9-12 Credit: 1

Beginning dance class includes an overview of a variety of dance genres (jazz, hip-hop, ballet, lyrical, modern, and various drill team styles). Students will develop performance and choreographic skills culminating in at least one mandatory performance.

Dance II

[69111/2 DANCE 2 03830200]

Grades: 10-12 Credit: 1 PR: Instructor Approval /Dance I

Intermediate dance class includes an overview of a variety of dance genres (jazz, hip-hop, ballet, lyrical, modern, and various drill team styles). Students will develop performance and choreographic skills culminating in at least one mandatory performance. An important element of this class is physical conditioning to develop flexibility, physical expression of rhythmic understanding, and poise.

Dance III-IV

[69121/2 DANCE 3 03830300]

[69131/2 DANCE 4 03830400]

Grades: 11-12 Credit: 1

PR: Instructor Approval Dance II

Advanced dance class includes extensive study of a variety of dance genres. Continued development of technical facility and refinement of high-level performance skills will be the focus of this class. Students will develop performance and choreographic skills culminating in multiple performances both in the school and in the greater metropolitan community. Students can expect a high level of physical demand in the day-to-day routine of this class.

Music

Non-Varsity Band I-IV

[B68000 SUB NV B BAND 03150100]

[B68170 SUB NV A BAND 03150200]

[B68120 NV BAND 03150300]

Grades: 9-12 Credit: 1 (1/2 PE Waiver) PR: Instructor Approval

This band is designed to meet the individual needs of the student, and membership is by audition. Musical performance in UIL events, concerts, scheduled band activities, and additional rehearsals are a required part of the student's responsibility in the organization. Marching band is required and begins the first of August and includes before and after school rehearsals throughout the school year. Students can substitute Marching Band for Physical Education. An instrument use/band fee may be required.

Varsity Band I-IV

[68131/2 V BAND 03150400]

Grades: 9-12 Credit: 1 (1/2 PE Waiver) PR: Instructor Approval

The Varsity Band is designed for the advanced instrumental student and membership is by audition. Musical performance in UIL events, concerts, scheduled band activities, and additional rehearsals are a required part of the student's responsibility in the organization. Marching Band is required and begins the first week of August and includes before and after school rehearsals throughout the school year. Students are allowed to substitute Marching Band for Physical Education. An instrument use/band fee may be required.

Jazz Band I-IV

[68501/2 JAZZ BAND 1 03151300]

[68511/2 JAZZ BAND 2 03151400]

[68521/2 JAZZ BAND 3 03151500]

[68531/2 JAZZ BAND 4 03151600]

Grades: 9-12 Credit: 1 PR: Instructor Approval

PR: Concurrent membership in band or orchestra; Exception permitted for piano, guitar, bass. Vocalists that enroll in the jazz band course are required to hold concurrent membership in the choral program. The Jazz Band provides students with an opportunity to explore alternative styles and instrumental techniques utilized in American jazz and jazz-derived musical idioms. Students will learn creativity through improvisation. Musical performances in concerts, contests and additional rehearsals are a required part of the student's responsibility in the organization. An instrument use/band fee may be required.

Mariachi I-IV

[68541/2 MARIACHI 1 ENS 03153800]

[68551/2 MARIACHI 2 ENS 03153900]

[68561/2 MARIACHI 3 ENS 03154000]

[68571/2 MARIACHI 4 ENS 03154100]

Grades: 9-12 Credit: 1 PR: Instructor Approval

The Mariachi Ensemble is a musical organization designed to study the various mariachi styles (jalisciense, rancion, ranchera, corrido, huapango, bolero, polka, joropo, pasodoble and vals mexicano) in an ensemble setting. All musical skills, including tablature and improvisation that relate to mariachi will be taught. Musical performances in concerts, contests and additional rehearsals are a required part of the student's responsibility in the organization. Violinists must hold concurrent membership in the orchestra program, wind players must hold concurrent membership in the band program, and vocalists must hold concurrent membership in the choral program to be eligible to participate. An instrument use/mariachi fee may be required.

Non-Varsity Orchestra

[68231/2 SUB NV B ORCH 03150500]
[68221/2 SUB NV A ORCH 03150600]
[68211/2 NV ORCH 03150700]

Grades: 9-12 Credit: 1 PR: Instructor Approval

Non-Varsity and Sub Non-Varsity Orchestra is designed to meet the individual needs of the student, and membership is by audition. Musical performances in UIL events, concerts, and additional rehearsals are a required part of the student's responsibility in the organization. Students are encouraged to demonstrate improvement and audition for the advanced level orchestras each year. An instrument use/orchestra fee may be required.

Varsity Orchestra

[68201/2 V ORCH 03150800]

Grades: 9-12 Credit: 1 PR: Instructor Approval

The Varsity String Orchestra class is for advanced instrumental violin, viola, cello, and string bass students and membership is by audition. The course of study includes developmental playing techniques, general musicianship, and representative orchestral literature. Musical performance in UIL events, concerts, scheduled orchestral activities, and additional rehearsals is a required part of the student's responsibility in the organization. An instrument use/orchestra fee may be required.

Instrumental Ensemble

[68601/2 INST EN1 03151700]

[68611/2 INST EN2 03151800]

[68621/2 INST EN3 03151900]

[68631/2 INST EN4 03152000]

Grade: 9-12 Credit: 1

PR: Instructor Approval/Concurrent membership in band or orchestra

Instrumental ensembles meet the needs of students with a specific interest in performing ensemble literature other than that studied in band or orchestra. Size and composition of each group is designed to meet requirements of the music to be studied.

A Cappella Choir I-IV

[68701/2 VOC ENS 9 03152100]

[68711/2 VOC ENS 10 03152100]

[68721/1 VOC ENS 11 03152100]

[68731/2 VOC ENS 12 03152100]

[68741/2 MUS ENS CONTEMP 03152100]

Grades: 9-12 Credit: 1 PR: Instructor Approval

The A Cappella Choir is designed for the advanced choral students, and membership is by audition. The course of study includes vocal production, general musicianship, and representative choral literature from the Renaissance to the present. Musical performance in concerts, UIL events, scheduled activities, and additional rehearsals is a required part of the student's responsibility in the organization. A choir fee may apply.

Mixed Choir I-IV

[68321/2 VARMIXED 09 03150900]

[68351/2 VARMIXED 10 03150100]

[68381/2 VARMIXED 11 03151100]

[68411/2 VARMIXED 12 03151200]

Grades: 9-12 Credit: 1 PR: Instructor Approval

The Mixed Choir is designed to meet the individual needs of students, and membership is with the director's approval. The course of study includes vocal production, general musicianship, and representative choral literature from the Renaissance to the present. Musical performance in concerts, UIL events, scheduled activities, and additional rehearsals are a required part of the student's responsibility in the organization. A choir fee may apply.

Treble Choir I-IV

[68301/2 VAR TREBLE 9 03150900]
[68311/2 NV TREBLE 9 03150900]
[68331/2 VAR TREBLE 10 03151000]
[68341/2 NV TREBLE 10 03151000]
[68361/2 VAR TREBLE 11 03151100]
[68371/2 NV TREBLE 11 03151100]
[68391/2 VAR TREBLE 12 03151200]
[68401/2 NV TREBLE 12 03151200]

Grades: 9-12 Credit: 1 PR: Instructor Approval

The Treble Chorus is designed to meet the needs of the choral students, and membership is with the director's approval. The course of study includes vocal production, general musicianship, and representative choral literature from the Renaissance to the present. Musical performance in concerts, UIL events, scheduled activities, and additional rehearsals is a required part of the student's responsibility in the organization. A choir fee may apply.

Tenor-Bass Choir I-IV

[68421/2 NV TEN/BASS 9 03150900]
[68431/2 NV TEN/BASS 10 03151000]
[68441/2 NV TEN/BASS 11 03151100]
[68451/2 NV TEN/BASS 12 03151200]

Grades: 9-12 Credit: 1 PR: Instructor Approval

The Tenor-Bass Chorus is designed to meet the needs of the choral student, and membership is with the director's approval. The course of study includes vocal production, general musicianship, and representative choral literature from the Renaissance to the present. Musical performance in concerts, UIL events, scheduled activities, and additional rehearsals is a required part of the student's responsibility in the organization. A choir fee may apply.

Vocal Ensemble

[68701/2 VOC ENS 9 03152100]
[68711/2 VOC ENS 10 03152200]
[68721/2 VOC ENS 11 03152300]
[68731/2 VOC ENS 12 03152100]

Grades: 11-12 Credit: 1 PR: Instructor Approval

Meets the needs of students with a specific interest in a specialized choral music class. Size and composition of each group is designed to meet requirements of the music to be studied. A choir fee may apply.

Applied Music I-IV

[68801/2 MUS ENS 9 03152500]
[68811/2 MUS ENS 10 03152600]
[68851/2 MUS ENS 11 03152601]
[68861/2 MUS ENS 12 03152602]

Grades: 9-12 Credit: 1

PR: Instructor Approval/Previous music experience

Credit may be granted for Applied Music (individual study) in the areas of piano, voice, wind and string instruments only when the contracting student is enrolled concurrently in at least one additional music course. Public performance is required. A choir fee may apply.

Music Theory

[68821/2 MUS THY 1 03155400]

Grades: 9-12 Credit: 1 PR: Instructor Approval

This is a study of the principles and techniques of the 18th and 19th century composition. This course will cover the basic fundamentals of music theory, ear-training, sight-singing, harmonic, and-melodic dictation, and part-writing through the use of non-harmonic tones.

AP Music Theory

[68831/2 APMUSTHY A3150200]

Grades: 9-12 Credit: 1 PR: Instructor Approval

Advanced Placement (AP) courses are open enrollment courses, designed for students who are passionate about the subject, prepared and willing to take on the challenge. Advanced Placement Music Theory is an enhanced music theory course designed for more in-depth study and application for students in ear-training, sight-singing, melodic dictation and composition. The course will also provide an overview of music history from the Renaissance through the contemporary period. Students will be required to take the AP exam.

Theater Arts

Theater Arts I

[67101/2 TH 1 03250100]

Grades: 9-12 Credit: 1

This course of study is designed as an introductory survey in the fundamentals of theater production, including the role of the actor in the interpretation of dramatic literature and the development of the physical theater. The student is also involved in the physical and mental processes of learning to act with emphasis on interpretation, bodily movement, and characterization.

Theater Arts II

[67111/2 TH 2 03250200]

Grades: 10-12 Credit: 1 PR: Instructor Approval

This course of study is designed to provide the student with knowledge of the actor's craft, the development of theater as part of our cultural heritage, fine dramatic literature, and the ability to evaluate dramatic experiences. The major emphasis of the course is on the extension of the student's knowledge of the principles of acting, comedic and dramatic theory, stagecraft, directing, and actual workshop experience in the preparation and presentation of plays.

Theater Arts III

[67121/2 TH 3 03250300]

Grades: 11-12 Credit: 1 PR: Instructor Approval

This course of study is designed as an advanced course, which prepares students for competition in drama events in local and statewide tournaments. The major emphasis is on the practice, critique, and refinement of the techniques of acting, directing, stagecraft, and preparing and presenting plays and/ or scenes from plays.

Theater Arts IV

[67131/2 TH 4 03250400]

Grade: 12 Credit: 1 PR: Instructor Approval

This course of study is designed to further engage students in theatrical competitions and to provide the student with advanced training in the actor's craft, the history of the theater, and theories of dramatic study. The student will refine skills in acting, directing, stagecraft, and production.

Theater Production I-IV

[67201/2 TH1 PROD 03250700]

[67211/2 TH2 PROD 03250800]

[67221/2 TH3 PROD 03250900]

[67231/2 TH4 PROD 03251000]

Grades: 9-12 Credit: 1 PR: Audition & Instructor Approval

Theater Production I, II, III, and IV are lab courses in which students are involved in acting in and producing a minimum of three plays each school year.

Technical Theater I-IV

[67301/2 TH1TECH 03250500]

[67311/2 TH2TECH 03250600]

[67321/2 TH3TECH 03250700]

[67331/2 TH4TECH 03250800]

Grades: 9-12 Credit: 1 PR: Instructor Approval

Technical Theater is the study and application of scenic design, make-up design, costume design, and stage and box office management.

Theatre and Media Communications I

[67351/2 TH1MCOM 03251300]

Grades: 9-12 Credit: 1

PR: Instructor Approval and offered at Singley Only

This course will balance explorations into contemporary practices in digital media and creation and analysis of student performances. 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.

Leadership

Student Leadership

[85111/2 STULEAD N1290010]

Grades: 9-12 Credit: 1 PR: Teacher Recommendation

This course provides an opportunity to study, practice and develop group and individual leadership and organizational skills. These skills include decision-making skills, problem-solving techniques, communication skills, leadership roles, human relations skills and understanding the need for civic responsibility. Students who take this course will apply these skills in dealing with peers, school staff and the community. This course is a hands-on, lab-oriented approach to leadership.

Methodology for Academic and Personal Success (MAPS)

[85481/2 MAPS1 N1130021]

Grades: Credit: 1-2

Methodology for Academic and Personal Success focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world. Students will identify likes and dislikes, talents, and hobbies. The course focuses on self –understanding, decision-making, resiliency, attitude, character, social skills and leadership to help students maximize personal achievement in high school and beyond. Additionally, the course emphasizes proactive problem solving, self-determination, and independent thinking skills.

Special Education

Note: An Admission, Review and Dismissal (ARD) Committee determines Special education placement and individual course selections. Placement and course selections are reviewed, at a minimum, on an annual basis.

Special Education Course Offerings: The following are courses taught by special education teachers. All students will have access to the general curriculum and to the Texas Essential Knowledge and Skills (TEKS). Curriculum may be accessed through modifications, accommodations, and/or Recommended Prerequisite skills dependent upon the individual needs of the student. All core subject special education courses are taken for credit.

Principles

Principles of English I

[15111/2 ENG1PRN 03220100]

Grades: 9 Credit: 1

This course uses modified English I content to meet the individual learning requirements of students. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and view representing. Students will integrate correct language skills within the reading and writing processes; plan, draft, and complete written compositions from all writing forms on a regular basis; read and respond to multiple genres from world literature translated into English from various cultures; understand basic literary concepts. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of English II

[15211/2 ENG2PRN 03220200]

Grades: 10 Credit: 1

This course uses modified English II content to meet the individual learning requirements of students. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students increase and refine their communication skills; plan, draft, and complete written compositions with emphasis on persuasive forms; read extensively in multiple genres from world literature translated to English from various cultures. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual needs of the students.

Principles of English III

[15311/2 ENG3PRN 03220300]

Grades: 10-11 Credit: 1

This course uses modified English III content to meet the individual learning requirements of students. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of English IV

[15411/2 ENG4PRN 03220400]

Grades: 12 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skill for the grade level English I TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students will integrate correct language skill within the reading and writing processes; plan, draft, and complete written compositions from all writing forms on a regular basis; read and respond to multiple genres from world literature translated into English from various cultures; understand basic literary concepts. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of Algebra 1

[25181/2 ALG1PRN 03100500]

Grades: 9 Credit: 1

This course is designed for students to learn the skills and application of Algebra 1 through modified and accommodated curriculum. Principles of Algebra 1 students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions among others.

Principles of Geometry

[25391/2 GEOMPRN 03100700]

Grades: 9-12 Credit: 1

Principles of Geometry is designed for students to learn the skills and application of geometry through modified and accommodated curriculum. Students develop the facility with a broad range of ways of representing geometric ideas that allow multiple approaches to geometric problems that connect geometric interpretations to other contexts.

Principles of Algebra 2

[25241/2 ALG2PRN 03100600]

Grades: 9-12 Credit: 1

Principles of Algebra 2 is designed for students to build on Principles of Algebra 1 and Geometry Modified experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Through the use of modified and accommodated curriculum students will be provided insights into mathematical abstraction and structure through the content strands. Connections will be made between algebra and geometry and the tools of one will be used to help solve problems in the other.

Principles of Math Models

[25631/2 MTHMDPRN 03102400]

Grades: 11-12 Credit: 1

This course is designed for students to continue to build on the K-8 and Principles of Algebra 1 foundations as they expand their understanding through other mathematical experiences. Through the use of modified and accommodated curriculum students use mathematical methods to model and solve real-life application problems involving money, date, chance, patterns, music, design, and science. Students use a variety of representations, tools, and technology to link modeling techniques and purely mathematical concepts and to solve applied problems.

Principles of Biology

[35101/2 BIOPRN 03010200]

Grades: 9-10 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Biology TEKS. The course may cover cell structure and function of systems in organisms, scientific processes and basic concepts of biochemistry, genetics, microbiology, taxonomy, botany, physiology, and zoology. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of Chemistry

[35481/2 CHEMPRN 03040000]

Grades: 10-12 Credit: 1

This course uses modified Chemistry content to meet the individual learning requirements of students. Students conduct laboratory and field investigations, use scientific methods 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. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of Integrated Phy & Chem

[35701/2 IPCPRN 03060201]

Grades: 9 Credit: 1

This course meets the requirements of students by focusing on Recommended Prerequisite skills for the grade level of Integrated Physics and Chemistry (IPC) TEKS. In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry with the following topics: force, motion, energy, and matter.

Principles of Environmental Systems

[35341/2 ENVRSYPRN 03020000]

Grades: 11-12 Credit: 1

This course meets the requirements of students by focusing on Recommended Prerequisite skills for the grade level Environmental Systems TEKS. In Principles of Environmental Systems, students may conduct laboratory and field investigations, use scientific methods 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, and changes in environments.

Principles of Physics

[35551/2 PHYSICSPRN 03050000]

Grades: 10-12 Credit: 1

This course meets the requirements of students by focusing on Recommended Prerequisite skills for the grade level Physics TEKS. In Principles of Physics, students may conduct laboratory and field investigations, use scientific methods 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; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

Principles of World Geography Studies

[45101/2 WGEOPRN 03320100]

Grades: 9 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World Geography TEKS. This course involves study of the interaction of people and cultures with their physical environment in the world's major areas: attention to the locations of natural resources, geographic boundaries, landforms, economic development, language, patterns of settlement, and the interaction of cultures and nations within the context of global development. Activities use critical thinking skills and technology resources designed to assist students in recognizing how understanding events in World Geography will influence our country and our people. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of US Government

[45204 GOVTPRN 03330100]

Grades: 12 Credit: ½

This course will enable students to define their rights, privileges and responsibilities within the school, community, and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules, and regulations. Students are instructed on how to be productive and safe in a variety of community situations including employment. Students will become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization.

Principles of US History

[45301/2 USHSTPRN 03340100]

Grades: 11 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level U.S. History TEKS. The course focuses on U.S. history from Reconstruction to the present. Students review and evaluate major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of World History

[45401/2 WHSTPRN 03340400]

Grades: 10 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World History TEKS. The course focuses on historical development of human society from past to present times. Emphasis placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Principles of Economics

[46104 ECOPRN 03310300]

Grades: 12 Credit: ½

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Economics TEKS. Students will develop an understanding and an appreciation of the principles of economics. Students will study the fundamentals of the American free enterprise system and learn how to become full participants in the American economic and political systems.

Principles of Methodology for Academic and Personal Success (MAPS)

[85551/2 MAPS1PRN N1130021]

Grades: 9-12 Credit: 1

Methodology for Academic and Personal Success focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world. Students will identify likes and dislikes, talents, and hobbies. The course focuses on self-understanding, decision-making, resiliency, attitude, character, social skills and leadership to help students maximize personal achievement in high school and beyond. Additionally, the course emphasizes proactive problem solving, self-determination, and independent thinking skills.

Principles of Occupational Prep 1

[79101/2 OCPR1PRN 85000013]

Grades: 9-12 Credit: 1

This course is designed to introduce students to the fundamental attitudes, behaviors, and habits needed to obtain and maintain employment in their career choice and make career advancements. Students will participate in school-based learning activities including work ethic development, job-seeking skills, decision-making skills, and self-management. Students will be involved in on-campus vocational training activities such as school factories, work-based enterprises, hands-on vocational training in Workforce Development Education courses and the operation of small businesses. Formal career planning and development of knowledge regarding transition planning begins in this course and continues throughout the strand of Occupational Preparation courses.

Principles of Occupational Prep 2

[79111/2 OCPR2PRN 85000014]

Grades: 9-12 Credit: 1

This course is designed to allow students to develop skills generic to all career majors; resource management, communication, interpersonal relationships, technology, stamina, endurance, safety, mobility skills, motor skills, teamwork, sensory skills, problem solving, cultural diversity, information acquisition/management, and self-management. This course content is focused on providing students with a repertoire of basic skills that will serve as a foundation for future career application. Students will expand their school-based learning activities to include on-campus jobs and work-based learning activities. Job seeking skills also will be refined.

Principles of Occupational Prep 3

[79151/2 OCPR3PRN 85000015]

Grades: 9-12 Credit: 1

This course is designed to allow students to continue the development and begin the application of skills learned in Occupational Preparation I and II. Campus work-based learning activities will be provided to allow students to apply employability skills to competitive employment settings and demonstrate the effectiveness of their work personality. Multiple opportunities for leadership development and self-determination are provided.

Fundamentals

Listed below are additional courses only offered as "Fundamentals". All fundamentals courses are based on ARD committee decisions.

Fundamentals of English I

[15911/2 ENG1FND 03220107]

Grades: 9 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English I TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students will integrate correct language skill within the reading and writing processes; plan, draft, and complete written compositions from all writing forms on a regular basis; read and respond to multiple genres from world literature translated to English from various cultures; understand basic literary concepts. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of English II

[15921/2 ENG2FND 03220207]

Grades: 10 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English II TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students increase and refine their communication skills; plan, draft, and complete written compositions with emphasis on persuasive forms; read extensively in multiple from world literature translated into English from various cultures. Students continue development of study skills, strategies, and the use genre of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of English III

[15931/2 ENG3FND 03220300]

Grades: 10-11 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English III TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students' present and critique oral communications and Graphic Design & Illustration products. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of English IV

[15941/2 ENG4FND 03220400]

Grades: 12 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English IV TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of Communication Applications

[16904 COMAPFND 03241400]

Grades: 11-12 Credit: ½

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Communication Application TEKS. All aspects of human interaction, whether professional or social, rely on effective communication skills. Due to the incredibly rapid expansion in technologies and social media, there exists increasing demands for human communications to be clear and precise in both verbal and nonverbal behaviors. Speaking and listening behaviors require valid critical-thinking and problem-solving processes. Students enrolled in Fundamentals of Communication Applications will identify, analyze, develop and evaluate communication prerequisite skills in interpersonal situations, group interactions, and personal and professional presentations.

Fundamentals of Algebra 1

[25901/2 ALG1FND 03100507]

Grades: 9 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Algebra 1 TEKS. Algebra 1 Alternate students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others. Students learn to combine functions, express functions in equivalent forms, compose functions and find inverses where possible. Algebra 1 Alternate will provide students with insights into mathematical abstraction and structure through the content strands Foundations for Functions, Linear Functions, and Quadratics and other Non-Linear Functions. It is extremely important for students to learn Algebra 1 standards in depth, as it is a foundation for other math courses.

Fundamentals of Algebra 2

[25931/2 ALG2FND 03100600]

Grades: 9-12 Credit: 1

Fundamentals of Algebra 2 is designed for students to build on Algebra 1 Alternate and Geometry Alternate experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Through the use of modified and accommodated curriculum students will be provided insights into mathematical abstraction and structure through the content strands. Connection will be made between algebra and geometry and the tools of one will be used to help solve problems in the other.

Fundamentals of Geometry

[25911/2 GEOMFND 03100700]

Grades: 9-12 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Geometry TEKS. High school students develop facility with a broad range of ways of representing geometric ideas, including coordinates, networks, transformations, that will allow multiple approaches to geometric problems and that connect geometric interpretations to other contexts. Students learn to recognize connections among different representations, thus enabling them to use these representations flexibly. Students will expand their understanding through other mathematical experiences through the Geometry content strands of Geometric Structure, Geometric Patterns, Dimensionality and the Geometry of Location, Congruence and the Geometry of Size, and Similarity and the Geometry of Shape.

Fundamentals of Mathematical Models with Applications

[25921/2 MTHMDFND 03102400]

Grades: 11-12 Credit: 1

Fundamentals of Math Models is designed for students to continue to build on the K-8 and Fundamentals of Algebra 1 foundations as they expand their understanding through other mathematical experiences. Through the use of modified and accommodated curriculum students use mathematical methods to model and solve real-life application problems involving money, date, chance, patterns, music, design, and science. Students use a variety of representations, tools, and technology to link modeling techniques and purely mathematical concepts and to solve applied problems.

Fundamentals of Biology

[35901/2 BIOFND 03010207]

Grades: 9-10 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Biology TEKS. The course may cover cell structure and function of systems in organisms, scientific processes and basic concept of biochemistry, genetics, microbiology, taxonomy, botany, physiology, and zoology. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of Environmental Systems

[35351/2 ENVRSYFND 03020000]

Grades: 11-12 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Environmental Systems TEKS. In Fundamentals of Environmental Systems, students may conduct laboratory and field investigations, use scientific methods 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, and changes in environments. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of Chemistry

[35921/2 CHEMFND 0304000]

Grades: 10-12 Credit: 1

This course uses alternate Chemistry content to meet the individual learning requirements of students. Students conduct laboratory and field investigations, use scientific methods 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. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of Physics

[35571/2 PHYSICSFND 0305000]

Grades: 10-12 Credit: 1

This course uses alternate Physics content to meet the individual learning requirements of students. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motions; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior waves; and atomic, nuclear, and quantum physics. Some variation in course content/emphasis may occur on campus depending on individual learning needs of the students.

Fundamentals of Integrated Phy & Chem

[35911/2 IPCFND 03060201]

Grades: 9-11 Credit: 1

This course meets the requirements of students by focusing on Recommended Prerequisite skills for the grade level of Integrated Physics and Chemistry (IPC) TEKS. In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry with the following topics: force, motion, energy, and matter.

Fundamentals of World Geography Studies

[45101/2 WGEOFND 03320100]

Grades: 9 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World Geography TEKS. This course involves study of the interaction of people and cultures with their physical environment in the world's major areas: attention to the locations of natural resources, geographic boundaries, landforms, economic development, language, patterns of settlement, and the interaction of cultures and nations within the context of global development. Activities use critical thinking skills and technology resources designed to assist students in recognizing how understanding events in World Geography will influence our country and our people. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of US Government

[47934 GOVTFND 0333010]

Grades: 12 Credit: ½

Fundamentals of Government will enable students to define their rights, privileges and responsibilities within the school, community, and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules, and regulations. Students are instructed on how to be productive and safe in a variety of community situations including employment. Students will become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization.

Fundamentals of US History

[47921/2 USHSTFND 03340107]

Grades: 11 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level U.S. History TEKS. The course focuses on U.S. history from Reconstruction to the present. Students review and evaluate major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of World History Studies

[47911/2 WHSTFND 03340400]

Grades: 10 Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World History TEKS. The course focuses on historical development of human society from past to present times. Emphasis placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

Fundamentals of Economics

[47944 ECOFND 03310300]

Grades: 12 Credit: 1/2

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Economics TEKS. Students will develop an understanding and an appreciation of the principles of economics. Students will study the fundamentals of the American free enterprise system and learn how to become full participants in the American economic and political systems.

Fundamentals of Methodology for Academic and Personal Success (MAPS)

[85561/2 MAPS1FND N1130021]

Grades: 9-12 Credit: 1

Methodology for Academic and Personal Success focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world. Students will identify likes and dislikes, talents, and hobbies. The course focuses on self-understanding, decision-making, resiliency, attitude, character, social skills and leadership to help students maximize personal achievement in high school and beyond. Additionally, the course emphasizes proactive problem solving, self-determination, and independent thinking skills.

Fundamentals of Work Based Learning I

[79301/2 WBLFND 85000006]

In this instructional arrangement/setting students will practice employability skills at actual job sites in the local community. A wide range of sites will be used including, but not limited to retail, service, volunteer, health related and clerical so as to provide the student with numerous opportunities to explore a variety of employment options. Students will be supervised directly by special education personnel without remuneration. Work Based Learning I: Focus of instruction will be on individual responsibility on the job sites in the community with direct supervision by a certified teacher.

Fundamentals of Work Based Learning II

[79471/2 WBL2FND 85000007]

In this instructional arrangement/setting students will practice employability skills at actual job sites in the local community. A wide range of sites will be used including, but not limited to: retail, service, volunteer, health related and clerical so as to provide the student with numerous opportunities to explore a variety of employment options. Students will be supervised directly by special education personnel without remuneration. Work Based Learning II: Continued focus of instruction will be on individual responsibility on the job sites in the community with direct supervision by a certified teacher.

CCC Voc I: Academic**[96441/2 CCCVOCI 85000017]***Grades: 12+ Credit: 2*

Classroom and community-based instruction is provided to help students achieve the greatest level of independence possible. Students continue to learn reading, writing, and math while developing basic living skills, job skills, personal safety, community access, and recreation skills. CCCVoc I is a supplementary course to CCCVoc II, III, and IV.

CCC Voc II: Community**[96451/2 CCCVOCII 85000018]***Grades: 12+ Credit: 2*

Students build a network of support utilizing resources available in Dallas County. Students develop self-advocacy skills and identify and practice the decisions they will make as responsible adults. Students will continue to build functional life skills needed for independence or interdependence in adulthood. CCCVoc II is a supplementary course to CCCVoc I, III, and IV.

CCC Voc III: Vocation**[96461/2 CCCVOCIII 85000019]***Grades: 12+ Credit: 2*

This course is designed to strengthen career readiness skills needed to prepare students for employment: Students use a hands-on vocational curriculum to learn skills necessary for the work-force and independent life. In addition, students will participate in internships to gain vocational experience or to identify a possible career. CCCVoc III is a supplementary course to CCCVoc I, II, and IV.

CCC Voc IV: Career Exploration-Capstone Course**[96471/2 CCCVOCIV 85000022]***Grades: 12+ Credit: 2*

This course will provide students with a capstone experience in work-based learning. The course is designed to give students supervised practical application of employment skills that can be generalized in a variety of work settings. CCCVOC IV is a supplementary course to CCCVOC I, II, III.

PS Vocational I**[96401/2 PSVOCI 8500001]***Grades: 12+ Credit: 2*

PS Voc I is designed to strengthen career readiness skills needed to prepare students for competitive employment. This course will be taught at the host business site to provide students time to work on problem solving techniques, communication skills and planning for successful employment. This is a supplementary course to PS Voc II, III, and IV.

PS Vocational II**[96411/2 PSVOCII 8500003]***Grades: 12+ Credit: 2*

The practicum course is designed to give students supervised practical application of entry level job skills. Non-paid internship will take place at the host business. Student will apply knowledge and job skills necessary to meet employer expectations.

PS Vocational III**[96421/2 PSVOCIII 8500004]***Grades: 12+ Credit: 2*

The practicum course is designed to give students supervised practical application of entry level job skills. Non-paid internship will take place at the host business. Students will apply knowledge and job skills necessary to meet employer expectations.

PS Vocational IV**[96431/2 PSVOCIV 8500005]***Grades: 12+ Credit: 2*

PS VOC IV will provide students with a capstone experience in work based learning. The internship is designed to give students supervised practical application of employment skills that can be generalized in a variety

CTED Horticulture and Floriculture**[78901/2 CTED HORTISCI 13002000]***Grades: 9-12 Credit: 1*

In this course, students will learn to plant, grow and sell plants and flowers while working in the greenhouse. Students will develop skills to prepare for careers in the horticulture industry, including product development, marketing and management skills. Enrollment is based on ARD Committee decision.

CTED Employability Skills**[79671/2 CTED GEMPLS N1270153]***Grades 9-12 Credit: 1*

In this course, students will learn the skills necessary to secure employment. The course will focus on various careers that are in-demand, the skills necessary for success on the job and provide instruction on interviewing and completing applications. Enrollment is based on ARD Committee decision.

Vocational I-V**[850000008] [850000009] [85000010] [85000011] [85000012]***Grades: 9-12 Credit: 1 Local*

This course focuses on real world vocational training. Students enrolled in this course will study vocational skills necessary for applying for, obtaining, and maintaining employment. Students will learn hands-on job skills, effective communication strategies, and problem-solving techniques necessary for successful employment. Enrollment is based on ARD committee decision.

Irving ISD Recommended High School Course Sequence English – Class of 2018 & Beyond

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
8th grade English	English I	English II	English III	English IV College Preparatory Course ELA
8th grade English	English I	English II	English III Dual Credit	English IV Dual Credit
8th grade Honors English	English I Honors	English II Honors	AP English Language and Composition AP Seminar Capstone	AP English Literature and Composition AP Research Capstone
English 1 GT/Humanities	English II Honors	AP English Language and Composition AP Seminar Capstone	AP English Literature and Composition AP Seminar Capstone or AP Research Capstone	English V Genre Study AP Research Capstone

Irving ISD Recommended High School Course Sequence Math – Class of 2018 & Beyond

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Math 8	Algebra 1	Geometry	Algebra II	Precalculus Statistics College Preparatory Course Mathematics
Math 8	Algebra 1	Geometry	Algebraic Reasoning	Algebra 2 Statistics College Preparatory Course Mathematics
Algebra 1 Honors/GT	Geometry Honors	Algebra 2 Honors GT	AP Precalculus AP Statistics AP Computer Science A	AP Calculus AB or BC AP Statistics AP Computer Science A

Irving ISD Recommended High School Course Sequence Science – Class of 2018 & Beyond

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
8th Grade Science	Biology	Chemistry	Physics	Environmental Systems Astronomy
8th Grade Science	IPC	Biology	Physics Chemistry Environmental Systems Astronomy	Physics Chemistry Environmental Systems Astronomy
8th Grade Science Honors	Biology Honors	Chemistry Honors	AP Physics 1 AP Physics 2 AP Biology AP Chemistry AP Environmental Science	AP Physics 1 AP Physics 2 AP Physics C: Electricity & Magnetism AP Physics C: Mechanics AP Biology AP Chemistry AP Environmental Science
Biology GT	Chemistry GT	AP Physics 1 AP Physics 2 AP Biology AP Chemistry AP Environmental Science	AP Physics 1 AP Physics 2 AP Physics C: Electricity & Magnetism AP Physics C: Mechanics AP Biology AP Chemistry AP Environmental Science	AP Physics 2 AP Physics C: Electricity & Magnetism AP Physics C: Mechanics AP Biology AP Chemistry AP Environmental Science

***All pre-requisites for AP science courses are based on the recommendations from TEA and College Board.**

Irving ISD Recommended High School Course Sequence Social Studies: Class of 2018-2027

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
8th Grade Social Studies	World Geography	World History	US History	US Government Economics
8th Grade Social Studies	World Geography	World History	US History Dual Credit	US Government Dual Credit Economics
8th Grade Honors Social Studies	World Geography Honors AP Human Geography	World History Honors AP World History	US History Dual Credit AP US History	US Government Dual Credit/ AP US Government AP Macroeconomics
8th Grade Honors Social Studies (GT students)	AP Human Geography	AP World History	AP US History	AP US Government AP Macroeconomics

Irving ISD Recommended High School Course Sequence Social Studies: Class of 2028 & Beyond

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
8th Grade Social Studies	World Geography or World History*		US History	US Government and Economics
8th Grade Social Studies	World Geography or World History*		US History Dual Credit	US Government Dual Credit and Economics
8th Grade Honors Social Studies	World Geography Honors, AP Human Geography, World History Honors, or AP World History*		US History Dual Credit or AP US History	US Government Dual Credit/ AP US Government and AP Macroeconomics
8th Grade Honors Social Studies (GT students)	AP Human Geography or AP World History*		AP US History	AP US Government and AP Macroeconomics

*Per local graduation policy, students are required to take 3 total Social Studies credits - World Geography **or** World History, US History, Government, and Economics.

Irving ISD Gifted and Talented Education

Subject	6 th grade	7 th grade	8 th grade	9 th grade	10 th grade	11 th grade	12 th grade
Language Arts	6 GT ELA/ Humanities	7 GT ELA/ Humanities	GT English Humanities	English II GT	AP Language & Composition GT AP Capstone Seminar	AP Literature & Composition GT AP Capstone Seminar AP Capstone Research	English V Genre Study AP Capstone Research
Mathematics	Math 6 Honors / HGT Accelerated	Math 7 Honors / HGT Accelerated	Algebra I GT	Geometry GT	Algebra II GT	AP Precalculus AP Statistics AP Computer Science A	AP Calculus AB or BC AP Statistics AP Computer Science A
Science	Science 6 GT	Science 7 GT	Biology GT	Chemistry GT	AP Physics 1 AP Physics 2 AP Biology AP Chemistry Environmental Science	AP Chemistry AP Physics 1 AP Physics 2 AP Physics C: Electricity & Magnetism AP Physics C: Mechanics AP Environmental Science	
Social Studies	6 th grade World Cultures	7 th grade Honors Texas History	8 th grade Honors US History	AP Human Geography/ Honors World Geography for Dual Language	AP World History	AP US History	AP US Gov't Comp Gov't AP Macro AP Micro

All pre-requisites for AP science courses are based on the recommendations from TEA and College Board.

Irving ISD High School ESL Course Sequencing Guidance

Grade	LAS LEVEL 1	LAS LEVEL 2	LAS LEVEL 3
9th	Mandatory Courses: ESOL 1A 15511/2 Reading 1 ESL 15561/2 Independent English 15501/2 IPC ESL 35391/2 W Geography ESL 45131/2 Algebra 1 ESL 25121/2 *ELDA 15781/2 (Newcomer/gaps in education)	Mandatory Courses: ESOL 1B 15521/2 Reading 2 ESL 15571/2 IPC ESL 35391/2 W Geography ESL 45141/2 Algebra 1 ESL 25121/2	English 1 ESL 15131/2 Reading 1 17501/2
	Possible Elective Courses: LOTE (native language) PE/Fine Arts	Possible Elective Courses: LOTE (native language) PE/Fine Arts	
10th	ESOL 2A 15531/2 Reading 1 ESL 15561/2 IPC ESL 35391/2 W History ESL 45431/2 Geometry ESL 25311/2 LOTE (native language) PE/Fine Arts	ESOL 2B 15541/2 Reading 2 ESL 15571/2 Biology ESL 35131/2 W History ESL 45441/2 Geometry ESL 25311/2 LOTE (native language) PE/Fine Arts	English 2 ESL 15231/2 Reading 2 17531/2 Geometry ESL 25121/2
11th		English 3 ESL 15331/2 Biology ESL 35131/2 LOTE (native language)	English 3 ESL 15331/2



Career and Technical Education

Career and Technical Education programs are designed to meet the demands of today's workforce by focusing on the needs of the business community today and in the future. The growth of the CTE programs in Irving is on the rise with emphasis on rigor, relevance, and relationships while focused on college, career, and military readiness.

It is the policy of the Irving Independent School District not to discriminate on the basis of age, race, religion, color, national origin, sex or handicap in its vocational programs, services or activities 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.

Es norma de Irving Independent School District no discriminar por motivos de raza, edad, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda



JACK E. SINGLEY ACADEMY

Admission to Jack E. Singley Academy is by application only and students are admitted to programs through an equitable lottery process. The application is available on the Jack E. Singley website, or students may see their counselors.

SCHOOL OF LAW AND PUBLIC SERVICE

JACK E. SINGLEY ACADEMY





Principles of Law, Public Safety, Corrections, and Security
[79821/2 PRINLPCS 13029200]

Level 1

Credit: 1 **AND**

Principles of Government
[79411/2 PRINGPA 13018200]

Credit: 1

Court Systems and Practices
[79451/2 COURTSP 13029600]

Level 2

Credit: 1 **AND**

[77551/2 LEGRW N1303014]
[77551/2 LEGRW N13003014]

Credit: 1

Advanced Legal Skills
[79851/2 ADVLSP N1303016]

Level 3

Credit: 1 **AND**

Business Law
[74391/2 BUSLAW 13011700]

Credit: 1

Practicum in Law
[75461/2 PRACTPS1 13030100]

Level 4

Credit: 2 **OR**

Political Science I
[73171/2 POLISCI1 13018300]

Credit: 1

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Attorney	Legal Assistant/ Paralegal	Legal Assistant/ Paralegal	Law
	Certified Paralegal			Intellectual Property Law
	Board Certification in Types of Law			Advanced Legal Research/ Studies, General
	Certified Legal Video Specialist			International Law and Legal Studies

Occupations	Median Wage	Annual Openings	% Growth
Lawyers	\$126,131	2,801	19%
Paralegal and Legal Assistants	\$50,544	2,837	19%

Exploration Activities:	Work Based Learning Activities:
Attend court hearings and other legal procedures; Texas Public Service Association	Intern with a local attorney; script and conduct a mock trial

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Legal Studies program of study introduces CTE learners 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 fire and emergency services.

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



Principles of Law, Public Safety, Corrections, and Security
[79821/2 PRINLPCS 13029200]

Level 1 Credit: 1 **AND**
Principles of Government
[79411/2 PRINGPA 13018200]

Credit: 1
Court Systems and Practices Dual Credit
[77561/2 COURTSP 13029600]

Level 2 Credit: 1 **AND**
Legal Research and Writing Dual Credit
[78691/2 LEGRW DC N1303014]

Credit: 1
Advanced Legal Skills Dual Credit
[79841/2 ADVLSP N1303016]

Level 3 Credit: 1 **AND**
Business Law Dual Credit
[79831/2 BUSLAW 13011700]

Credit: 1
Practicum in Law Dual Credit
[79861/2 PRACLPS1 13030100]

Level 4 Credit: 2 **OR**

[77561/2 COURTSPLAW H/DC 13029600]

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Attorney	Legal Assistant/ Paralegal	Legal Assistant/ Paralegal	Law
	Certified Paralegal			Intellectual Property Law
	Board Certification in Types of Law			Advanced Legal Research/ Studies, General
	Certified Legal Video Specialist			International Law and Legal Studies

Occupations	Median Wage	Annual Openings	% Growth
Lawyers	\$126,131	2,801	19%
Paralegal and Legal Assistants	\$50,544	2,837	19%

Exploration Activities:	Work Based Learning Activities:
Attend court hearings and other legal procedures; Texas Public Service Association	Intern with a local attorney; script and conduct a mock trial

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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 fire and emergency services.

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020

Principles of Law Enforcement [75411/2 PRINLAWEN 13029200]

Credit: 1

Level 1

AND

Criminal Investigation

[77601/2 CRINVEST 13029550]

Credit: 1

Court Systems and Practices

[76561/2A COURTS P 13029600]

Level 2

AND

Correctional Services

[75451/2 CORRSRVS 13029700]

Credit: 1

Law Enforcement I

[75421/2 LAWENF1 13029300]

Level 3

AND

National Security

[77681/2 NATLSEC 13018800]

Credit: 1

Law Enforcement II

[75431/2 LAWENF2 13029400]

Credit: 1

Level 4

OR

Practicum in Law Enforcement

[76541/2 PRACLPS1 13030100]

Credit: 2



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Non-Commissioned Security Officer Level II	Law Enforcement Officer	Criminal Justice/Safety Studies/Law Enforcement Administration	Criminal Justice/Safety Studies/Law Enforcement Administration	Criminal Justice/Safety Studies/Law Enforcement Administration
Emergency Telecommunicator	Private Investigator/Security Guard	Criminal Justice/Police Science	Criminal Justice/Police Science	Natural Resources Law Enforcement and Protective Services
	Code Enforcement Officer	Corrections	Juvenile Corrections	
	Certified Law Enforcement Planner	Criminalistics and Criminal Science	Cyber/Computer Forensics and Counterterrorism	

Occupations	Median Wage	Annual Openings	% Growth
Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
Probation Officers and Correctional Treatment Officers	\$44,054	793	9%
Correctional Officers and Jailers	\$40,186	4,683	9%
Immigration and Customs Inspectors	\$78,104	1,236	9%

Exploration Activities:	Work Based Learning Activities:
Texas Public Service Association; criminal justice clubs	Attend court hearings and other legal procedures

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Law Enforcement program of study teaches CTE learners about the development of, adherence to, and protection of various branches of law. Students will 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, 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 and Public Service program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



PRINCIPLES OF LAW ENFORCEMENT
[75411/2 PRINLAWEN 13029200]

Credits: 1 AND

Level 1

CRIMINAL INVESTIGATION
[77601/2 CRINVESTLAWEN 13029550]

Credits: 1

**COURT SYSTEMS AND PRACTICES
HONORS DUAL CREDIT**
[76271/2 COURTSPLAW H/DC 13029600]

Credit: 1 AND

Level 2

CORRECTIONAL SERVICES HONORS DUAL CREDIT
[73041/2 CORRSRVS H/DC 13029700]

Credits: 1

LAW ENFORCEMENT I HONORS DUAL CREDIT
[76311/2 LAWENF1 H/DC 13029300]

Credits: 1 AND

Level 3

NATIONAL SECURITY HONORS DUAL CREDIT
[73051/2 NATLSEC H/DC 13018800]

Credits: 1

LAW ENFORCEMENT II HONORS DUAL CREDIT
[75241/2 LAWENF2 H/DC 13029400]

Credits: 1 OR

Level 4

PRACTICUM IN LAW ENFORCEMENT HONORS DUAL CREDIT
[79741/2 PRACTLAWEN H/DC 13030100]

Credits: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Non-Commissioned Security Officer Level II	Law Enforcement Officer	Criminal Justice/Safety Studies/Law Enforcement Administration	Criminal Justice/Safety Studies/Law Enforcement Administration	Criminal Justice/Safety Studies/Law Enforcement Administration
Emergency Telecommunicator	Private Investigator/ Security Guard	Criminal Justice/ Police Science	Criminal Justice/ Police Science	Natural Resources Law Enforcement and Protective Services
	Code Enforcement Officer	Corrections	Juvenile Corrections	
	Certified Law Enforcement Planner	Criminalistics and Criminal Science	Cyber/ Computer Forensics and Counterterrorism	

Occupations	Median Wage	Annual Openings	% Growth
Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
Probation Officers and Correctional Treatment Officers	\$44,054	793	9%
Correctional Officers and Jailers	\$40,186	4,683	9%
Immigration and Customs Inspectors	\$78,104	1,236	9%

Exploration Activities:	Work Based Learning Activities:
Texas Public Service Association; criminal justice clubs	Attend court hearings and other legal procedures

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

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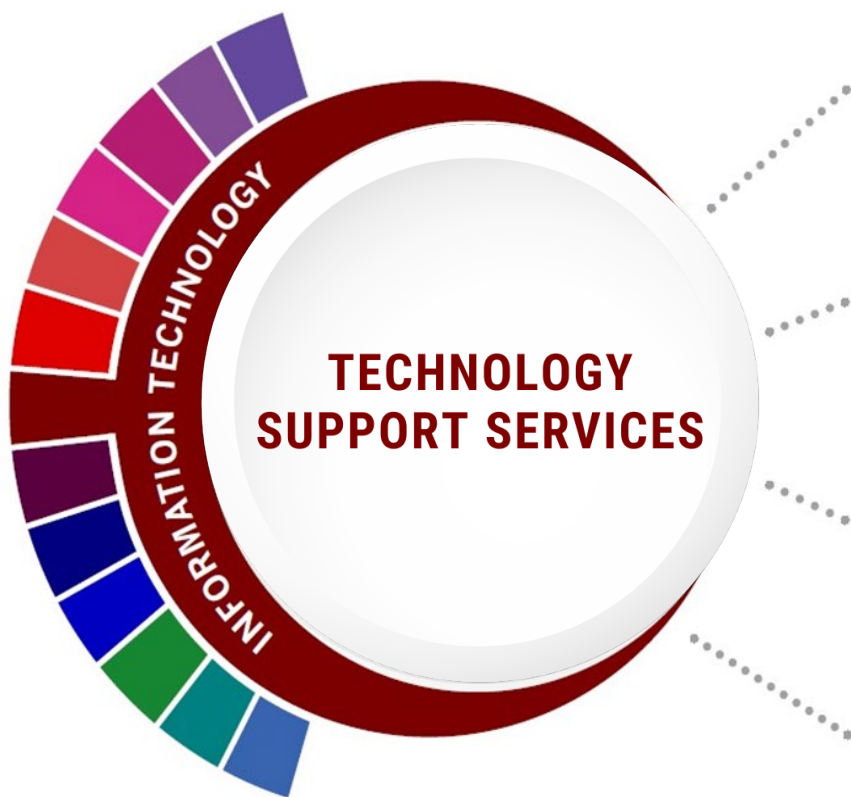


The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

SCHOOL OF INNOVATIVE TECHNOLOGY

JACK E. SINGLEY ACADEMY





Principles of Information Technology [75301/2 PRINT 13027200]

Credit: 1

Level 1

Fundamentals of Computer Science
[74211/2 TAFCS 03580140]

Credit: 1

Computer Maintenance Lab
[77841/2 COMMITLAB 13027310]

Credit: 1

Level 2

Networking
[79651/2 NETWRK 13027400]

Credit: 1

Computer Technician Practicum I DC
[79881/2 COMPT1 H/DC 13027500]

Credit: 2

Level 3

Computer Technician Practicum I
[75331/2 COMPT1 13027500]

Credit: 2

Computer Technician Practicum II
[77881/2 COMPT2 13027510]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Technology Associate Windows Operating System Fundamentals	IBM Certified Specialist - InfoSphere Optim for Distributed Systems Fundamentals	Computer and Information Sciences, General	Computer and Information Sciences, General	Computer and Information Sciences, General
ERSI ArcGIS Desktop Entry	IBM Certified Database Associate - DB2 11 Fundamentals for z/OS	Computer and Information Systems Security/ Information Assurance	Computer and Information Systems Security /Information Assurance	Computer Systems Analysis/ Analyst
CompTIA A+	HP ASE - ProLiant Server Solutions Integrator V2	Information Technology	Computer Engineering, General	Computer Engineering, General
CompTIA IT Fundamentals +	Oracle Linux 6 Advanced System Administration	Computer Systems Networking and Tele- communications	Computer Systems Networking and Tele- communications	Information Technology

Occupations	Median Wage	Annual Openings	% Growth
Database Administrator	\$83,075	1,063	19%
Computer Hardware Engineer	\$111,738	343	24%
Computer System Analyst and Support	\$87,568	5,937	29%

Exploration Activities:	Work Based Learning Activities:
Join TSA Job shadow a database administrator or computer hardware engineer	Obtain a Certification

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Information Technology 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 the Business and Industry endorsement or STEM endorsement if the math and science requirements are met.

Revised - July 2020

Level 1

Credit: 1

Fundamentals of Computer Science
[74211/2 TAFCS 03580140]

Credit: 1

Networking
[79651/2 NETWRK 13027400]

Level 2

Credit: 1

Foundations of Cybersecurity
[79581/2 TAFCYB 03580850]

Credit: 1

Digital Forensics
[77361/2 TADGR 03580360]

Credit: 1

Level 3

Cybersecurity Capstone
[79941/2 TACYBCAP 03580855]

Credit: 1

Practicum in Cyber Security
[77741/2 PRACCYBRSEC 13028000]

Level 4

Credit: 2



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Oracle Certified Associate Java SE 8	GIAC Reverse Engineering Malware	System Networking, and LAN/WAN Management	Computer Systems Networking and Telecommunications	Computer Systems Analysis/Analyst
Oracle Certified Database Associate	Certified Advanced Windows Forensic Examiner	Information Technology	Computer Systems Networking and Telecommunications	Information Technology
Cisco Certified Entry Networking Technician (CCENT)	SAP Certified Technology Professional System Security Architect	Computer and Information Sciences, General	Computer and Information Sciences, General	Computer and Information Sciences, General
CompTIA A+, Network+, Security+, and IT Fundamentals	Cisco Certified Network Professional Security Certification	Computer Science	Computer Science	Computer Science

Occupations	Median Wage	Annual Openings	% Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%

Exploration Activities:	Work Based Learning Activities:
Join TSA Job Shadow a computer system analyst or information security analyst.	Obtain an industry-based certification.

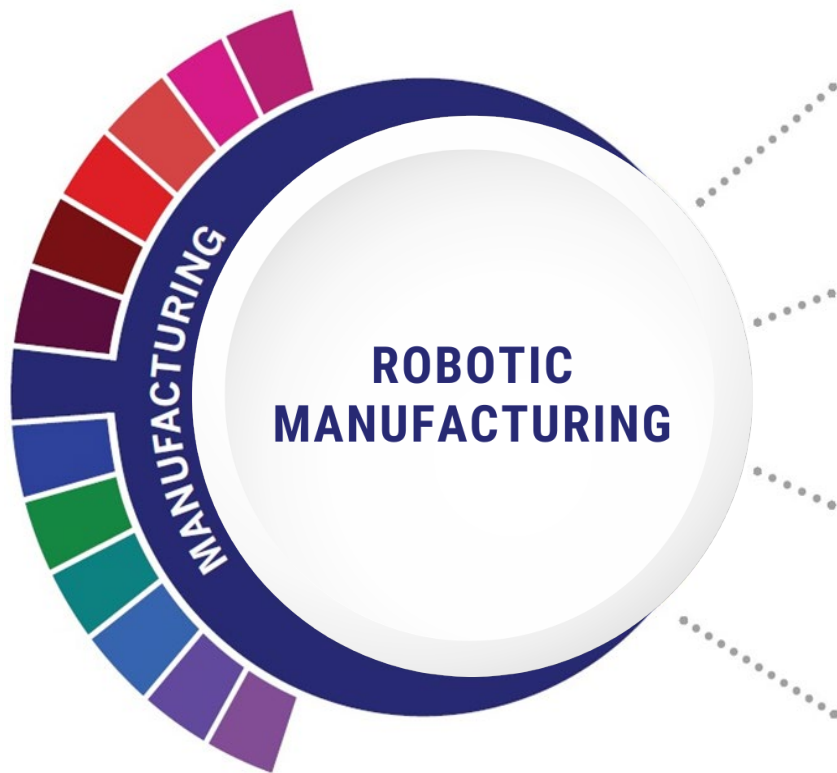
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

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 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.

Successful completion of the Cybersecurity program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Robotic Manufacturing
[75481/2 PRINROBMAN 13032200]

Credit: 1

Level 1

Fundamentals of Computer Science
[74211/2 TAFCS 03580140]

Credit: 1

Manufacturing Engineering Technology I
[77951/2 MANENGT1 13032900]

Level 2

Credit: 1

Robotics I
[75671/2 ROBOTIC1 13037000]

Credit: 1

Manufacturing Engineering Technology II
[77961/2 MANENGT2 13032950]

Level 3

Credit: 1

Robotics II
[77971/2 ROBOTIC2 13037050]

Credit: 1

Practicum in Robotic Manufacturing
[79501/2 PRACROBMAN 13033000]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
MSSC Certified Production Technician	Certified Welder or Welder Inspector	Welding Technology/ Welder	Welding Engineering Technology/ Technician	Welding Engineering Technology/ Technician
ISCET Associate- Level Certified Electronics Technician	Machining Level 1 - CNC Milling; Programming Setup & Operations	Machine Shop Technology/ Assistant	Biomedical Technology/ Technician	Occupational Health and Industrial Hygiene
Mastercam Professional Level Certification	Certified Welding Engineering	Operations Management and Supervision	Operations Management and Supervision	Operations Management and Supervision
NIMS Industrial Technology Maintenance - Basic Mechanical System	Certified Environmental, Safety, and Health Trainer	Occupational Safety and Health Technology/ Technician	Environmental Health	Environmental Health

Occupations	Median Wage	Annual Openings	% Growth
Mechanical Engineering Technicians	\$57,117	453	9%
CNC Machine Operators	\$39,250	1,319	12%
Aerospace Engineering and Operations Technicians	\$60,757	114	9%
Electrical and Electronics Engineering Technicians	\$60,382	1,439	9%
Industrial Engineering Technicians	\$61,672	326	9%

Exploration Activities:	Work Based Learning Activities:
Participate and compete in SkillsUSA Job shadow a machinist	Apprenticeship at a local business or Industry American Welding Society

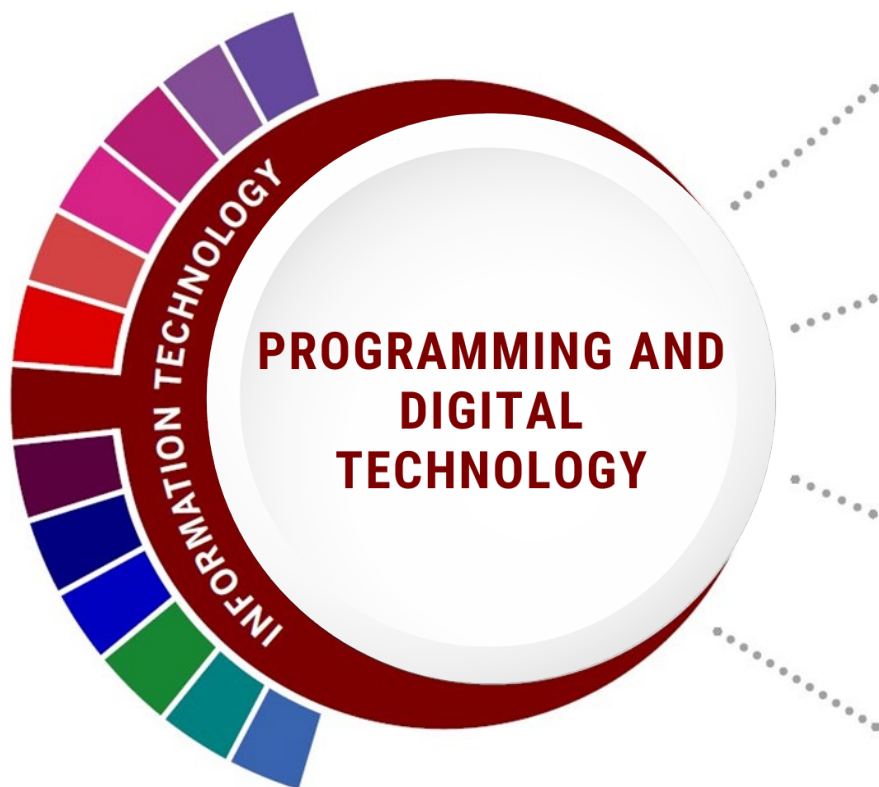
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Manufacturing Technology program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to set up and operate a variety of machine tools to produce precision parts and instruments. Students will also 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 and STEM Endorsement if math and science requirements are met. Revised - July 2020



Principles of Information Technology

[76981 PRINITYBR 13027200]

Credits: 1

Level 1

Fundamentals of Computer Science

[74211/2 TAFCS 03580140]

Credits: 1

Computer Science I

[75101/2 TACS1 03580200]

Credits: 1

Level 2

AP Computer Science Principles

[75181/2 APCSPRIN A3580300]

Credits: 1

Computer Science II

[75111/2 TACS2 03580300]

Credits: 1

Level 3

Game Programming and Design

[72191/2 TAGMPD 03580380]

Credits: 1

AP Computer Science A MATH

[75171/2 APTACASAM A3580110]

Credits: 1

Level 4

Independent Study in Emerging Technologies

[73021/2 TAINDET1 03581500]

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Oracle Certified Associate Java SE 8	AEM 6 Developer	Computer Programming/ Programmer, General	Web/ Multimedia Management and Webmaster	Computational Science
WD Certified Web Design Certification	Certified Webmaster Professional	Computer Science	Computer Science	Computer Science
Microsoft Technology Associate Introduction to Programming Certifications	Adobe Campaign Developer	Web Page, Digital/ Multimedia and Information Resources Design	Web Page, Digital/ Multimedia and Information Resources Design	Information Science/ Studies
	IBM Certified Solution Developer – Open Social	Computer Systems Networking and Telecommunications	Computer Systems Networking and Telecommunications	Computer Systems Networking and Telecommunications

Occupations	Median Wage	Annual Openings	% Growth
Web Developers	\$67,912	1,079	39%
Web Administrators, Computer Occupations	\$85,197	1,616	20%
Software Developers	\$104,499	6,311	30%

Exploration Activities:	Work Based Learning Activities:
Join TSA Participate in a coding or computer programming club Create a web page	Get an Oracle or CISCO Certification

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Web Development program of study explores the occupations and educational opportunities associated with designing, creating, and modifying websites. This program of study may also explore integrating websites with other computer applications, and converting written, graphic, audio, and video components to compatible web formats by using software designed to facilitate the creation of web and multimedia content.



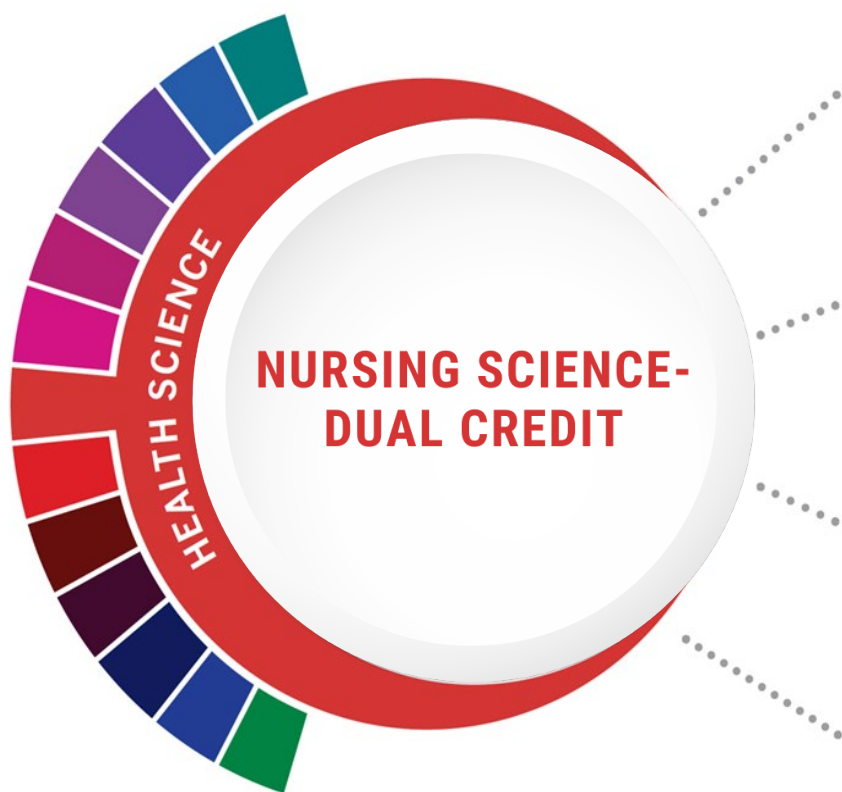
The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Successful completion of the Web Development program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020

SCHOOL OF HEALTH SCIENCE

JACK E. SINGLEY ACADEMY





Principles of Health Science
[74561/2 PRINHLSC 13020200]

Credit: 1

AND

Level 1 Medical Terminology Dual
Credit
[78281/2 MEDTERM H/DC
13020300]

Credit: 1

Health Science Theory Honors
Dual Credit
[78291/2 HISCLIN H/DC 13020410]

Level 2 Credit: 1
AND
Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Pathophysiology Honors Dual
Credit
[35371/2 PATHO/DC 13020800]

Level 3 Credit: 1
AND
Pharmacology Honors Dual
Credit
[78571/2 PHARMC/DC 13020950]

Credit: 1

Practicum in Health Science II
Honors Dual Credit
[78351/2 PRACHLS2 13020510]

Level 4 Credit: 2
OR
Scientific Research and Design
II Dual Credit
[36241/2 SCIRD2 13037210]

Credit: 1

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Medical Assistant	Licensed Vocational Nurse	Registered Nursing/ Registered Nurse	Informatics Nurse Specialists	Nurse Practitioner
Certified Nurse Aide/Assistant				Nursing Administration
Certified Patient Care Technician				Nurse Anesthetist

Occupations	Median Wage	Annual Openings	% Growth
Licensed Vocational Nurses	\$45,178	7,186	21%
Registered Nurses	\$68,682	17,493	26%
Nurse Practitioners	\$107,827	977	50%
Nurse Anesthetists	\$154,856	357	23%

Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

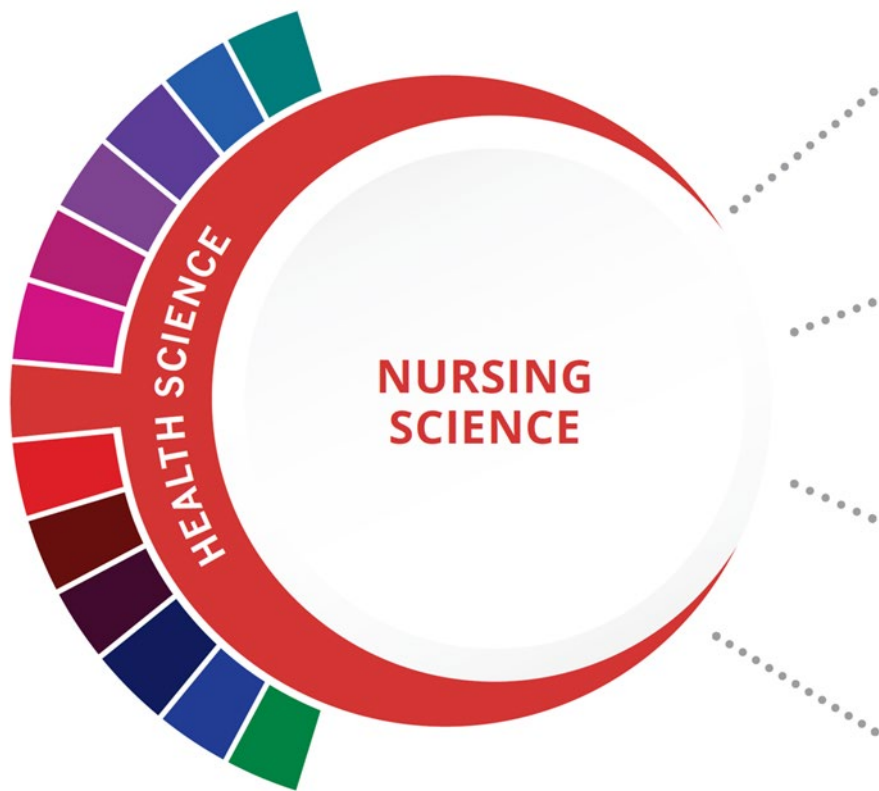
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Nursing Science program of study introduces students to the knowledge and skills related to patient care. CTE learners may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.



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 Nursing Science program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Health Science
[7456 1/2 PRINHLSC 13020200]

Credit: 1

Level 1

AND

Medical Terminology
[7457 1/2 MEDTERM 13020300]

Credit: 1

Health Science Theory
[7458 1/2 HLTHSC13020400]

Credit: 1

Level 2

AND

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Pathophysiology
[36141/2 PATHO 13020800]

Credit: 1

Level 3

AND

Pharmacology
[7837 1/2/2 PHARMC 13020950]

Credit: 1

**Practicum in Health Science-
Nursing**
[7461 1/2 PRACHLS1 13020500]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Medical Assistant	Licensed Vocational Nurse	Registered Nursing/ Registered Nurse	Informatics Nurse Specialists	Nurse Practitioner
Certified Nurse Aide/Assistant				Nursing Administration
Certified Patient Care Technician				Nurse Anesthetist

Occupations	Median Wage	Annual Openings	% Growth
Licensed Vocational Nurses	\$45,178	7,186	21%
Registered Nurses	\$68,682	17,493	26%
Nurse Practitioners	\$107,827	977	50%
Nurse Anesthetists	\$154,856	357	23%

Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Nursing Science program of study introduces students to the knowledge and skills related to patient care. CTE learners may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.



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 Nursing Science program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Health Science
[74561/2 PRINHLSC 13020200]

Credit: 1 **AND**

Level 1

Medical Terminology
[74571/2 MEDTERM 13020300]

Credit: 1

Health Science Theory
[74581/2 HLSCLIN 13020400]

Credit: 1 **AND**

Level 2

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Credit: 1

Practicum in Health Science
(Physical Therapy)
[74611/2 PRACHLS1 13020500]

Level 3

Credit: 2

Practicum in Health Science II
(Physical Therapy)
[74711/2 PRACHLS2 13020510]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certification in Orthopedic Manual Therapy	Certified Respiratory Therapist	Occupational Therapy Assistant	Respiratory Therapists	Occupational Therapists
Limited Licensed Radiology Technologist	Certified Physical Therapy Assistant	Radiation Therapists		Speech Language Pathologist
		Respiratory Therapists		Physical Therapists
		Physical Therapy Assistant		

Occupations	Median Wage	Annual Openings	% Growth
Speech Language Pathologists	\$73,070	1,068	25%
Respiratory Therapists	\$57,429	830	20%
Occupational Therapists	\$92,227	834	34%
Physical Therapy Assistants	\$70,200	1,268	44%
Radiation Therapists	\$70,658	101	23%

Exploration Activities:	Work Based Learning Activities:
Health Occupation Students of America (HOSA)	Lab internship, Job shadow, Clinical rotations

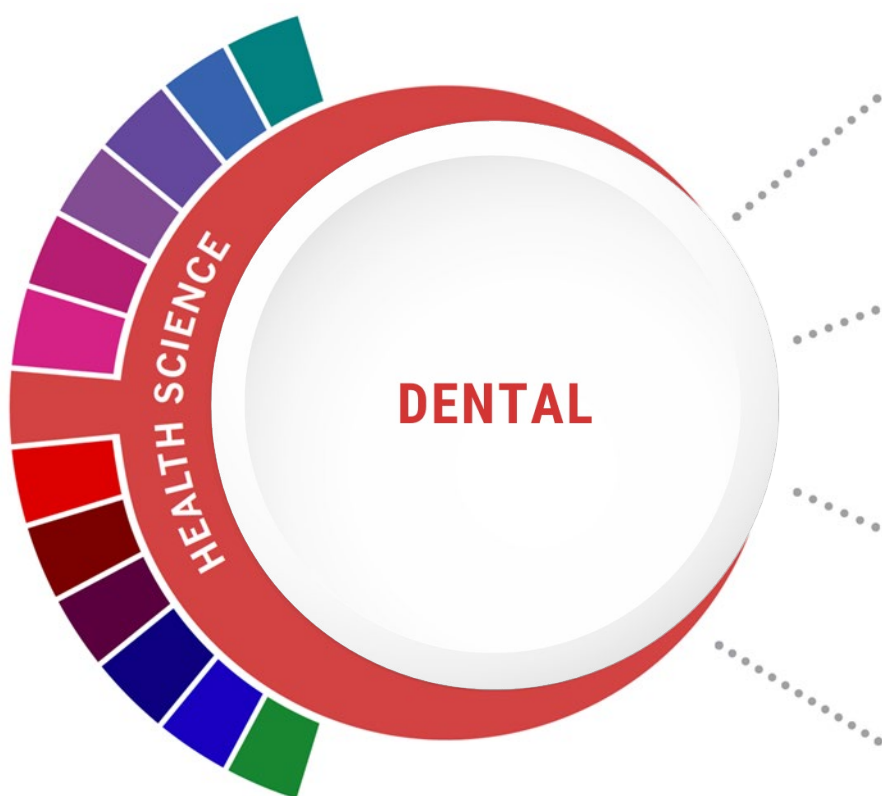
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Medical Therapy 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 in occupations such as, Respiratory, Occupational, Physical, or Speech Therapy. CTE learners 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 Medical Therapy program of study will fulfill requirements of a Public Service or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Health Science [74561/2 PRINHLSC 13020200]	
Credit: 1	AND
Level 1	
Medical Terminology [74571/2 MEDTERM 13020800]	
Credit: 1	
Health Science Theory [74581/2 HISCIN 13020400]	
Credit: 1	AND
Level 2	
Anatomy and Physiology [35221/2 ANATPHYS 13020600]	
Credit: 1	
Practicum in Health Science I (Dental) [74631/2 PRACHLS1 13020500]	
Credit: 2	
Level 3	
Practicum in Health Science II (Dental) [74511/2 PRACHLS2 13020510]	
Credit: 2	
Level 4	

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Registered Dental Assistant	Dental Assistant	Dental Hygienist	Dental Hygienist	Dentist
Certified Patient Care Technician	Surgical Technologist	Medical/ Clinical Assistant		Physician Assistant
Certified Nurse Aide/Assistant	Medical Assistant			Family and General Practitioners
Pharmacy Technician	Pharmacy Aides			Pharmacist

Occupations	Median Wage	Annual Openings	% Growth
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%
Dental Assistants	\$34,840	4,422	31%

Exploration Activities:	Work Based Learning Activities:
SkillsUSA Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living, or nursing home.

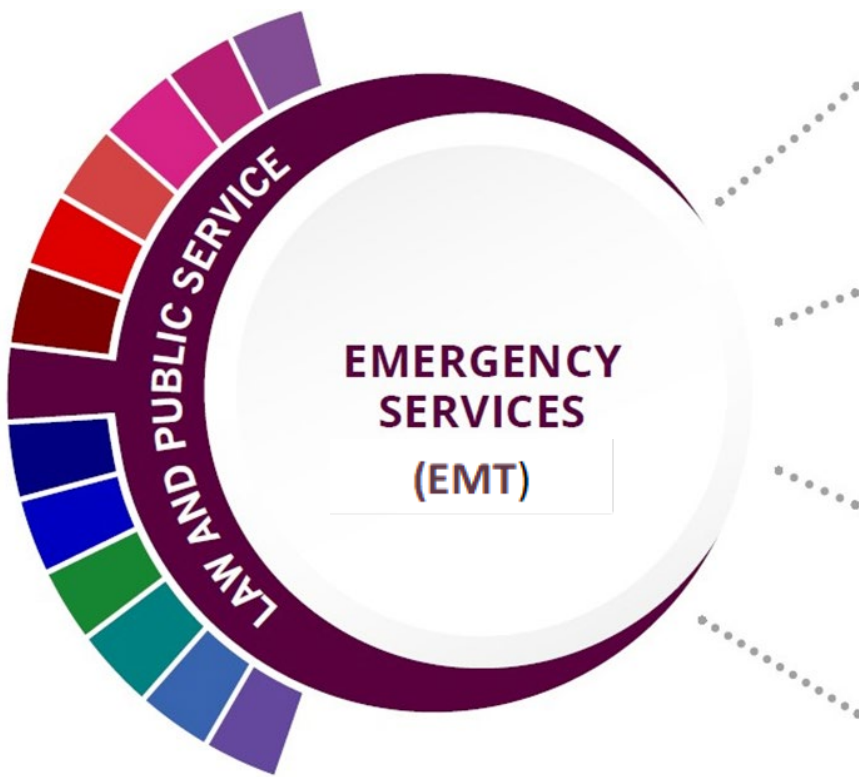
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Healthcare Therapeutic 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 Therapeutic program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Health Science
[74561/2 PRIN HLSC 13020200]

Cred it: 1
Level 1 AND

Medical Terminology
[74571/2 MEDTERM 13020300]

Cred it: 1
Health Science Theory
[74581/2 HLTHSCI 13020400]

Cred it: 1
Level 2 AND

Anatomy and Physiology
[35221/2 ANATPHYS 13020600]

Cred it: 1
Practicum in Health Science
[78411/2 PRACHLS1 13020500]

Level 3 Cred it: 2

Emergency Medical Technician
[79891/2 EMTB N1303015]

Level 4 Cred it: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Emergency Medical Technician - Basic	Emergency Medical Technician - Basic	Emergency Medical Technology/ Technician (EMT Paramedic)	Emergency Medical Technology/ Technician (EMT Paramedic)	
Emergency Telecommunicator	Fire Protection Personnel/ Firefighter	Fire Prevention and Safety Technology/ Technician	Natural Resources Law Enforcement and Protective Services	
Basic Structure Fire Protection Certification	Fire Protection System Contractor	Fire Science/ Firefighting		

Occupations	Median Wage	Annual Openings	% Growth
Firefighters	\$50,149	2,309	13%
Fire Inspectors and Investigators	\$54,787	161	14%
Emergency Medical Technicians	\$34,091	1,880	31%

Exploration Activities:	Work Based Learning Activities:
Attend local emergency awareness events, Texas Public Service Association	Volunteer at a hospital or a fire station

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Emergency Services program of study focuses on training CTE learners to respond to emergency situations, such as medical emergencies and fire-based emergencies. Students will learn how to prevent emergencies, respond appropriately and in accordance with rules and regulations during crises, and investigate and delineate the source of the emergency.

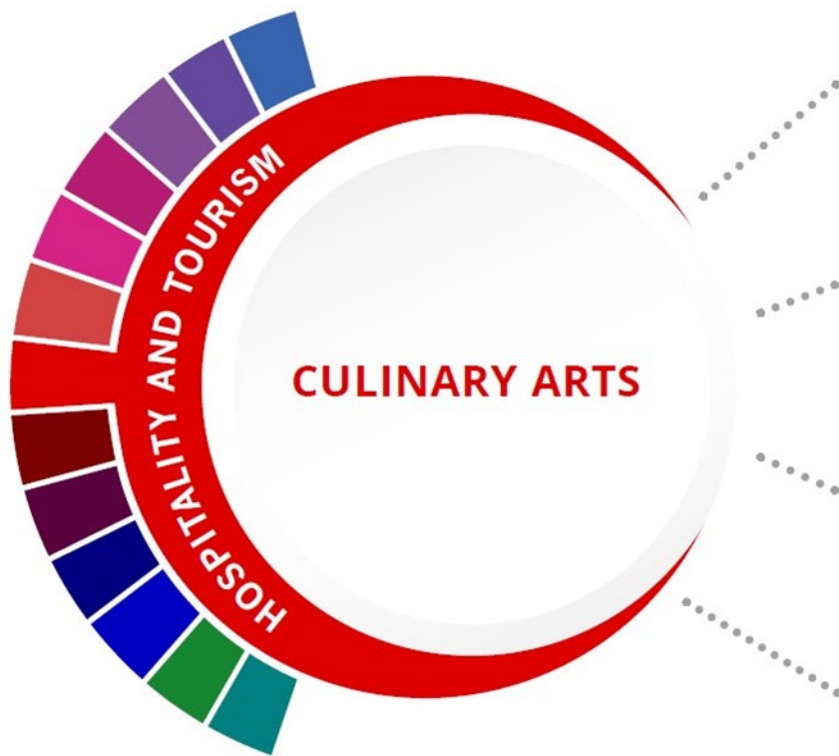


The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

SCHOOL OF CULINARY ARTS AND HOSPITALITY SERVICES

JACK E. SINGLEY ACADEMY





Principles of Hospitality and Tourism

[74671/2 PRINHOSP 13022200]

Credit: 1

Level 1

OR

OR

Introduction to Culinary Arts

[76681/2 INCULART 13022550]

Credit: 1

Culinary Arts

[74721/2 CULARTS 13022600]

Level 2

Credit: 2

PRACTICUM IN HOSPITALITY SERVICES

[74761/2 PRACHOS1 13022900]

Credits: 1 OR

Level 3

PRACTICUM IN CULINARY ARTS

[74731/2 PRACCUL1 13022700]

Credits: 1

PRACTICUM IN HOSPITALITY SERVICES 2

[785211/2 PRACHOS2 13022910] Second Time Taken

Credits: 1 OR

Level 4

PRACTICUM IN CULINARY ARTS

[79561/2 PRACCUL2 13022710] Second Time Taken

Credits: 1

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Fundamentals Cook	Certified Chef	Hotel and Restaurant Management	Hotel and Restaurant Management	Hotel and Restaurant Management
Certified Fundamentals Pastry Cook	Foodservice Management Professional	Restaurant Culinary and Catering Management	Food Service Systems Administration/Management	Food Service Systems Administration/Management
ServSafe Manager	Comprehensive Food Safety	Hospitality Administration/Management, General	Hospitality Administration/Management, General	Hospitality Administration/Management, General
ManageFirst Professional	Certified Food and Beverage Executive	Culinary Arts/ Chef Training	Culinary Science and Food Service Management	Business Administration Management, General

Occupations	Median Wage	Annual Openings	% Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%

Exploration Activities:	Work Based Learning Activities:
Family, Career, and Community Leaders of America (FCCLA), SkillsUSA, American Culinary Federation, Texas Restaurant Association	Plan a catering event or work for a catering company; participate in a cooking course; work in a restaurant; cook at home

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Culinary Arts program of study introduces CTE learners 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

SCHOOL OF STUDIO ARTS

JACK E. SINGLEY ACADEMY



Art 1

[66101/2 ART1 03500100]

Grades: 9 Credit 1

LEVEL 1

AND

Graphic Design

[79991/2] 3580900

Grades: 9 Credit 1

Art 2 - Drawing

[66201/2 ART2DRAW 03500500]

Grades: 10 Credit 1

LEVEL 2

AND

Art 2 - Painting

[66211/2 ART2PATG 03500600]

Grades: 10 Credit 1

Art 3 - Drawing

[66301/2 ART3DRAW 03501300]

Grades: 11 Credit 1

LEVEL 3

AND

AP 2D Design

[66361/2 AP2DAP A3500400]

Grades: 11 Credit 1

Art 4 - Drawing

[66401/2 ART4DRAW 03502300]

Grades: 12 Credit 1

LEVEL 4

AND

AP Studio Arts

[66461/2 APSTARTD A3500300]

Grades: 12 Credit 1



SCHOOL OF STUDIO ARTS

Additional Courses at Singley

These courses are available based on space availability and should be taken concurrently, or upon completion of a program of study

General Employability Skills

[78591/2 GEMPLS N1270153]

Grades: 10-12 Credits: 1 SINGLEY

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time

Parenting Education for School Aged Parents I (Counselor Recommendation)

[74921/2 PAEDSAP1 N1302536]

Grades: 9-12 Credits: 1 SINGLEY

This laboratory course is designed to address the special needs and interests of male and female students who are parents, who are pregnant, or who are expecting to become parents soon.

Parenting Education for School Aged Parents II (Counselor Recommendation)

[74941/2 PAEDSAP2 N1302537]

Grades: 9-12 Credits: 1 SINGLEY

Business Information Management I

[74371/2 BUSIM I 13011400]

Grades: 9-12 Credits: 1 SINGLEY

GET MICROSOFT OFFICE CERTIFIED! Students will learn Microsoft Office (Word, Excel, Access and Power Point). Students will work towards acquiring the Microsoft Office Specialist Certification in each of the major programs. Students will also learn desktop publishing and will improve keyboarding skills.

Professional Communications

[16394 PROFCOMM 13009900]

Grades: 9 Credits: 1/2 SINGLEY

MAY I HAVE YOUR ATTENTION? I WOULD LIKE TO SPEAK! You now need to begin preparing for a career in the global economy that will require you 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. Through this course, you will be prepared for the world once you have developed and expanded your ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. Are you ready?

Dimensions in Diplomacy

[79551/79552 DIDPL N1301820]

Grades: 11-12 Credit 1 SINGLEY

Dimensions of Diplomacy is designed to allow students to master the Thirteen Dimensions that candidates interested in careers with the United States Department of State must demonstrate during the selection process for internships, scholarships, fellowships, and career opportunities. Students will develop global competencies, problem-solving, decision-making, professional communication, and negotiation skills applicable to all clusters and professions but particularly relevant to international diplomacy and careers with multinational firms.

SCHOOL OF WORKFORCE READINESS

BARBARA CARDWELL CAREER PREPARATORY CENTER



Level 1

Credit: 1

Level 2

Entrepreneurship
[75971/2 ENTREP 13011101]

Credit: 1

Level 3

Business Management
[74441/2 BUSMGT 13012100]

Credit: 1

Level 4

Practicum in Entrepreneurship
[73091/2 PRACENT 13011111]

Credit: 2



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert- Excel	Certified Records Manager	Business Administration	Business Administration	Business Administration
Microsoft Office Specialist or Expert - Word	Certified Facility Manager	Business/ Commerce	Business/ Commerce	Business Management
Google Cloud Certified Professional – G-Suite	Certified Commercial Contracts Manager	Public Administration	Public Administration	Public Administration
Certified Associate in Project Management	Teradata 14 Basics/ Certified Technical Specialist	Business Management	Management Science	Management Science

Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Operations Research Analysts	\$78,083	1,128	38%

Exploration Activities:	Work Based Learning Activities:
Business Professional of America (BPA), Future Business Leaders of America (FBLA), and DECA	Internship with local business or chamber of commerce

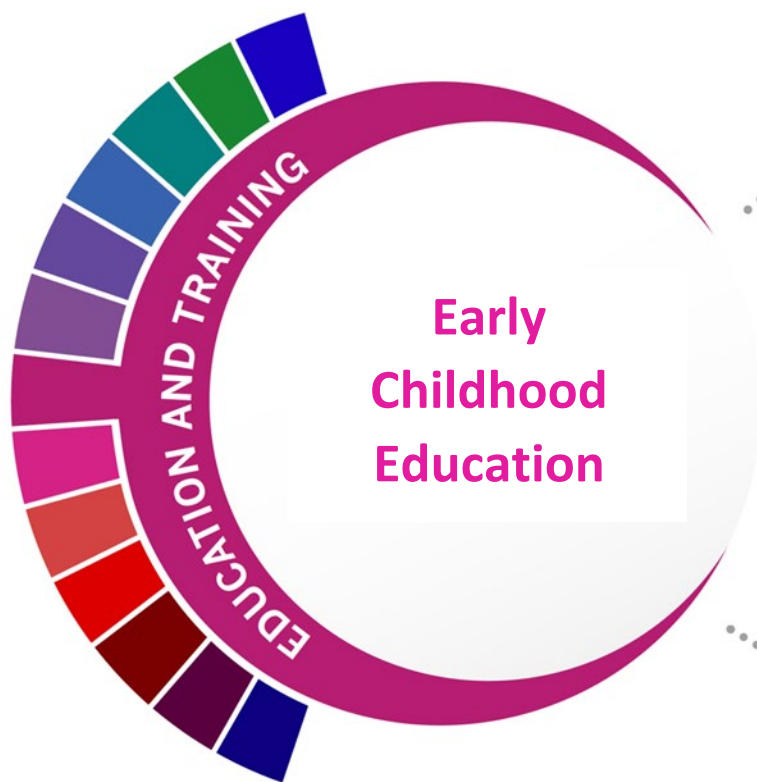
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Business Management 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 Business Management program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



PRINCIPLES OF EDUCATION AND TRAINING

Level 1 [74461/2 PRINEDTR 13014200]

Credits: 1

CHILD DEVELOPMENT ASSOCIATE FOUNDATIONS

[78731/2 CDAFND 13024710]]

Level 2

Credit: 1

CHILD GUIDANCE

[74811/2 CHILGUI 13024800]

Level 3

Credits: 2

PRACTICUM IN EARLY LEARNING

[78741/2 PRACEL1 13014520]

Level 4

Credits: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Child Development Associate	Child Development Associate	Early Childhood Education and Teaching	Early Childhood Education and Teaching	Early Childhood Education and Teaching
	Texas Educator Certification Program	Multicultural Early Childhood Development	Multicultural Early Childhood Development	Multicultural Early Childhood Development
	County Librarian	Kindergarten/Preschool Education and Training	Early Childhood	Educational, Instructional, and Curriculum Supervision
	Professional Counselor	Psychology/Sociology	Psychology/Sociology	Educational Leadership and Administration

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Kindergarten Teachers, except Special Education	\$53,310	1,848	17%
Preschool Teachers	\$27,851	4,330	17%
Special Education Teachers, Preschool	\$55,670	148	27%
Elementary School Teachers	\$54,140	13,121	16%
Education Administrators, Elementary and Secondary School	\$79,830	2,407	16%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Texas Association of Future Educators; Family, Career, and Community Leaders of America	Teach a community education class; volunteer as a teaching assistant.

The Early Learning program of study focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. This program of study introduces CTE learners to tasks necessary for planning, directing, and coordinating activities for young children.



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.

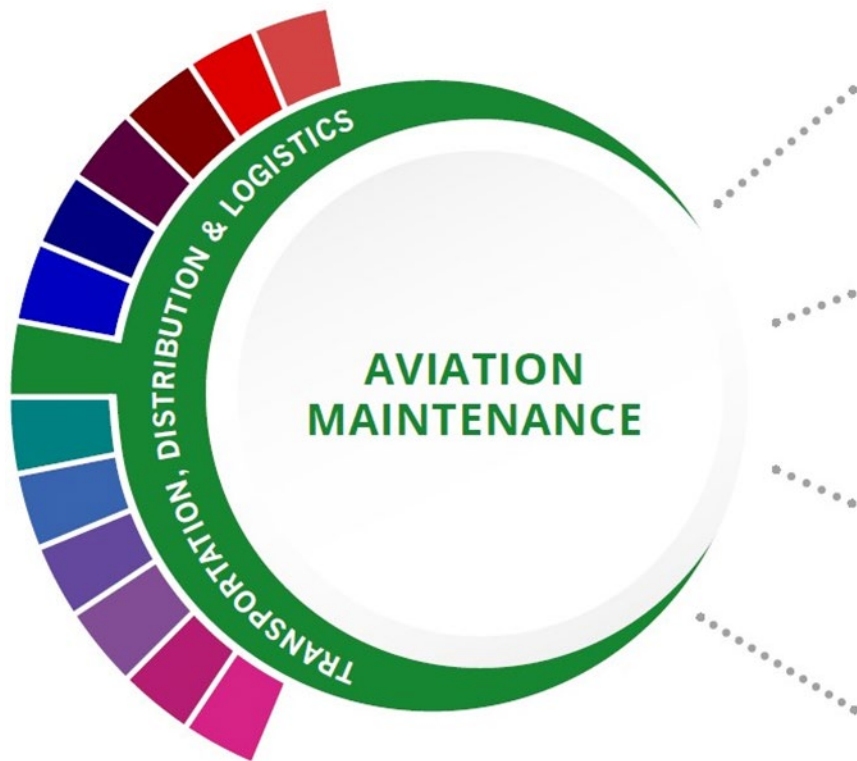
Successful completion of the Early Learning program of study will fulfill requirements of the Public Service endorsement.

SCHOOL OF AVIATION SCIENCE

IRVING HIGH SCHOOL



✦ Identifies a course as ADVANCED.



Introduction to Aerospace and Aviation
[78961/2 INTAEVI N1304672]

Level 1

Credit: 1

Introduction to Aircraft Technology
[76771/2 INAIRTEC 13039350]

Level 2

Credit: 1

Air Tech I
[77751/2 AIRTECHI 13039400]

Level 3

Credit: 2

Air Tech II
[76781/2 AIRTECHII 13040450]

Level 4

Credit: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Aerospace Manufacturing Certification	Avionics Electronics Technician	Avionics Maintenance Technology/ Technician	Airframe Mechanics and Aircraft Maintenance Technology/ Technician	
	Aircraft Electronics Technician	Aircraft Powerplant Technology/ Technician		
	Aerospace/ Aircraft Assembly Maintenance Certification	Airframe Mechanics and Aircraft Maintenance Technology/ Technician		

Occupations	Median Wage	Annual Openings	% Growth
Aircraft Mechanics and Technicians	\$58,698	1,469	9%
Avionics Technicians	\$59,114	170	9%

Exploration Activities:	Work Based Learning Activities:
Participate in SkillsUSA Explore virtual aviation websites	Seek part-time work at an airport, aviation services agency, or airline

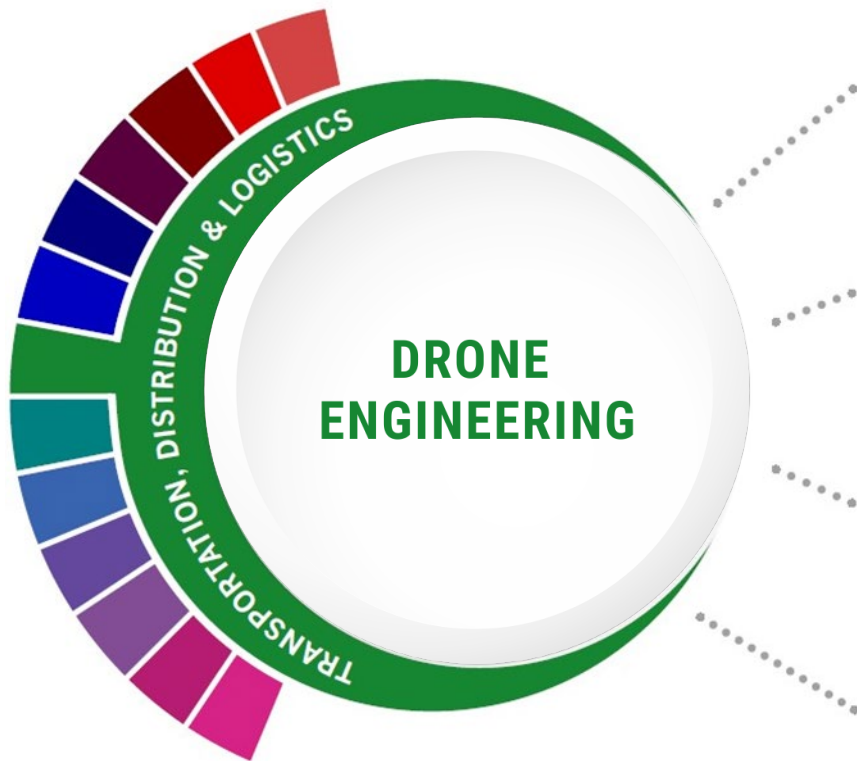
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

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 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 Maintenance program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



Introduction to Aerospace and Aviation
[78961/2 INTAEAVI N1304672]

Level 1

Credit: 1

Unmanned Aerial Vehicles
[73101/2 PRINUAV N1304670]

Level 2

Credit: 1

Drone Engineering I
[73131/2 DRONEENG1 13037000]

Level 3

Credit: 1

Drone Engineering II
[73141/2 DRONEENG2 13037050]

Level 4

Credit: 1

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	Associate DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User (ACU)-Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering
Certified SolidWorks Associate (CSWA)	Fluid Power Systems Designer	Drafting and Design Technician, General	CAD/CADD Drafting and/or Design Technology/Technician	Mechanical Engineering
Certified Engineering Technician-Audio Systems	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Biomedical Engineering

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineers	\$110,843	481	9%
Mechanical Engineers	\$91,107	1,535	11%

Exploration Activities:	Work Based Learning Activities:
Participate in SkillsUSA Explore virtual aviation websites	Seek part-time work at an airport, aviation services agency, or airline Engineering internship

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

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.



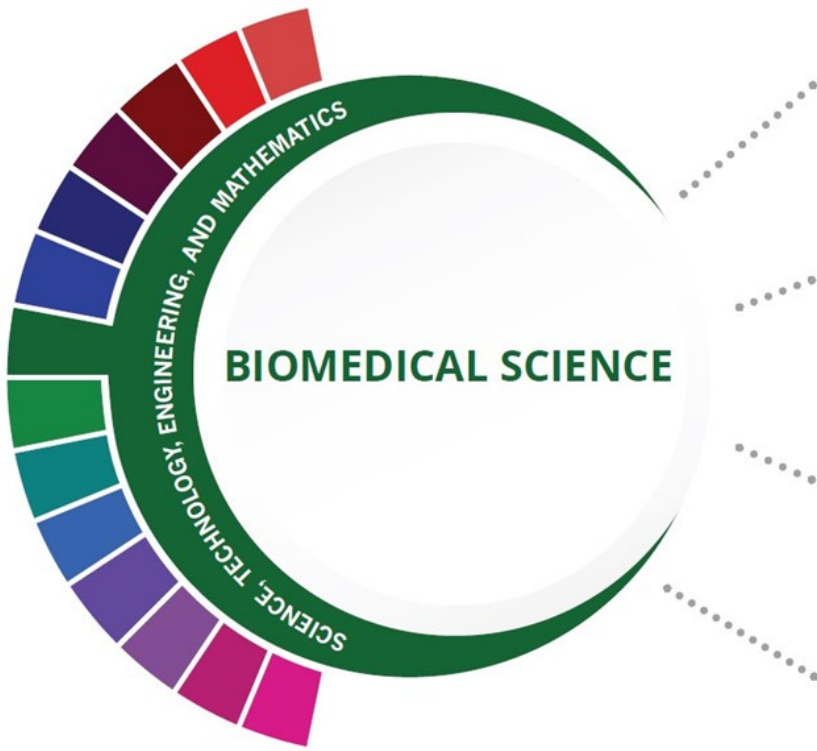
The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Successful completion of the Aviation Maintenance program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020

SCHOOL OF BIOMEDICAL SCIENCES

IRVING HIGH SCHOOL





Principles of Biosciences
[79751/2 PRBIOSCI 13036300]

Level 1

Credit: 1

Biotechnology I
[76901/2 BIOTECH 1 13036400]

Level 2

Credit: 1

Biotechnology II
[76911/2 BIOTECH2 13036450]

Level 3

Credit: 1

Practicum in STEM
[75661/2 PRCSTEM1 13037400]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Medical Laboratory Assistant	Medical and Clinical Laboratory Technologists	Histologic Technician	Biomedical Engineers	Genetic Counseling
Medical Laboratory Technician		Clinical Laboratory Science/ Medical Technology/ Technologist	Biomedical Engineers	Medical Scientists
			Clinical Laboratory Science/ Medical Technology/ Technologist	Epidemiology

Occupations	Median Wage	Annual Openings	% Growth
Medical and Laboratory Technicians	\$37,981	1,159	28%
Biological Technicians	\$42,931	452	17%
Forensic Science Technicians	\$48,152	171	35%
Medical and Clinical Laboratory Technologists	\$58,760	1,166	25%

Exploration Activities:	Work Based Learning Activities:
Health Occupations Students of America (HOSA)	Lab internship or shadow a healthcare or medical professional

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Biomedical Science program of study focuses on the study of biology and medicine in order to introduce CTE learners 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 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.

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

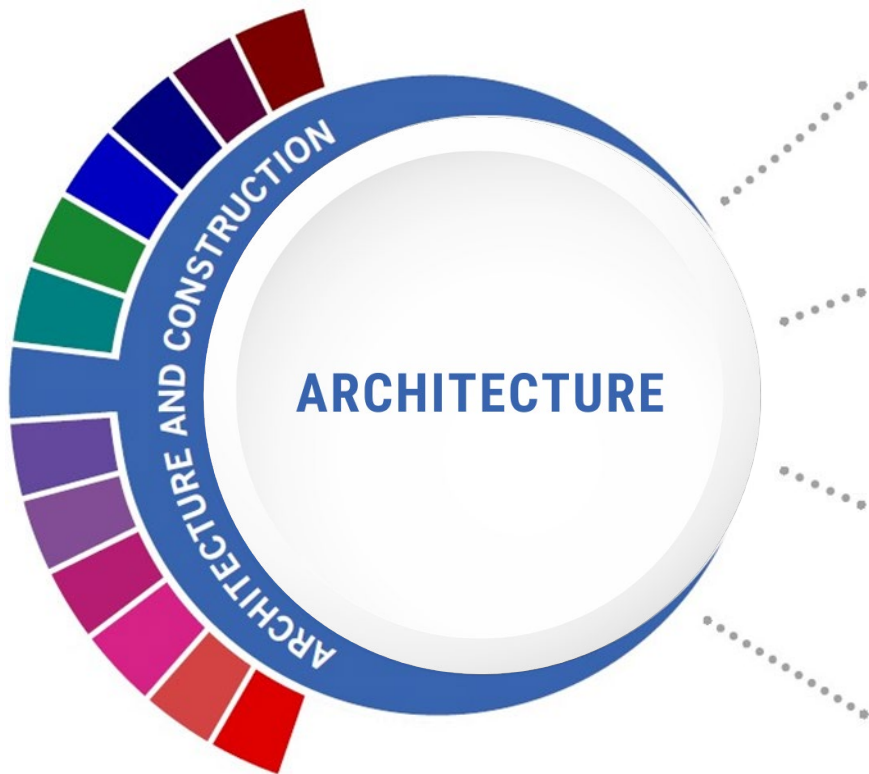
Revised - July 2020

SCHOOL OF ARCHITECTURE, CONSTRUCTION & CIVIL ENGINEERING

MACARTHUR HIGH SCHOOL



★ Identifies a course as ADVANCED.



Principles of Construction
[76851/2 PRINCON 13004220]

Level 1

Credit: 1

Principles of Architecture
[76921/2 PRINARCH 13004210]

Level 2

Credit: 1

Architectural Design 1
[74151/2 ARCHDSN1 13004600]

Level 3

Credit: 1

Architectural Design II
[74161/2 ARCHDSN2 13004700]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User in AutoCAD	Certified Photogrammetric Technologist	Architecture	Architecture	Architecture
Autodesk Certified Professional or User in AutoCAD Civil 3D	Certified Development, Design & Construction Professional	Interior Design	Interior Design	Interior Architecture
Autodesk Certified Professional or User in Autodesk Revit Architecture	National Council Certified Interior Designer	Civil Engineering, General	Civil Engineering, General	Civil Engineering, General
Autodesk Certified Professional or User in Autodesk Revit MEP Electrical	LEED AP Building Design & Construction	Geographic Information Science and Cartography	Geographic Information Science and Cartography	Geographic Information Science and Cartography

Occupations	Median Wage	Annual Openings	% Growth
Architects	\$77,043	808	16%
Geographic Information Analysts and Surveyors	\$58,926	162	27%
Architectural/ Civil Drafters	\$50,170	1,068	9%
Construction Managers	\$87,402	2,401	14%

Exploration Activities:	Work Based Learning Activities:
Shadow an architect, interior designer, or civil engineer. SkillsUSA/TSA	Intern at an architecture firm.

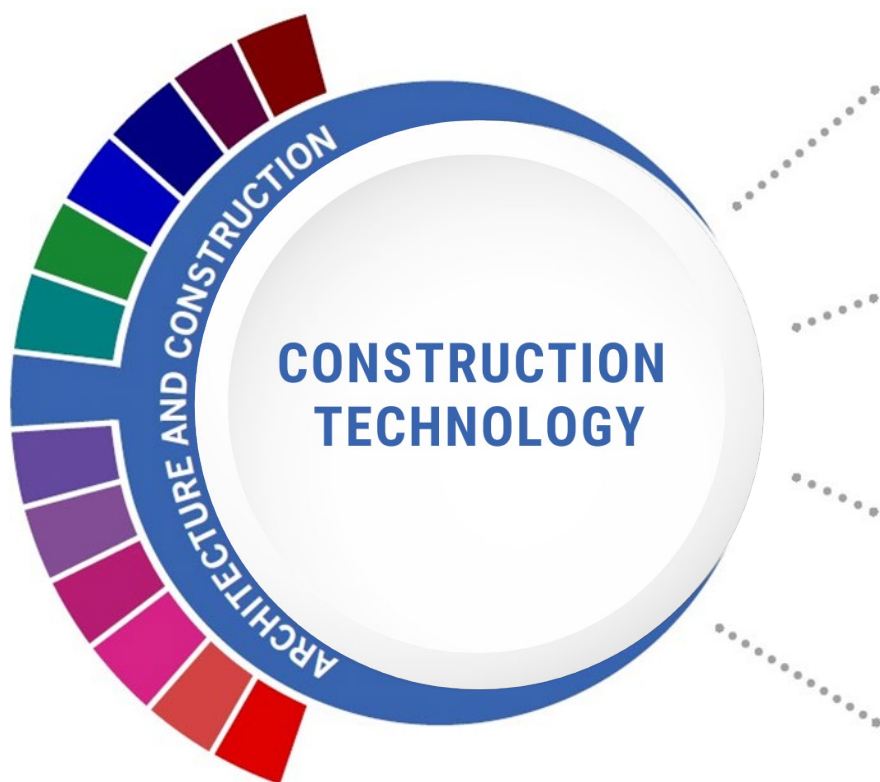
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

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

Successful completion of the Architectural Design program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



Level 1
Principles of Construction
[76851/2 PRINCON 13004220]

Credit: 1

Level 2
Construction Technology 1
[75371/2 CONTECHH1 D/C 13005100]

Credit: 2

Level 3
Construction Technology II
[76931/2 CONTECH2 13005200]

Credit: 2

Level 4
Practicum in Construction Technology
[76951/2 PRACCT1 13005250]

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Construction Technology	Code Enforcement Officer, Texas Department of Health Code Enforcement	Construction Engineering Technology/ Technician	Construction Engineering Technology/ Technician	Materials Engineering
NCCER Core Curriculum	Certified Cost Estimator/ Analyst	Business Administration and Management, General	Business Administration and Management, General	Business Administration and Management, General
OSHA 30 Hour Construction	Certified Professional Estimator	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering
NCCER Construction Site Safety Technician	Structural Masonry Special Inspector	Business/ Commerce, General	Business/ Commerce, General	Manufacturing Engineering

Occupations	Median Wage	Annual Openings	% Growth
Construction and Building Inspectors	\$53,914	983	17%
Cost Estimators	\$63,939	2,239	21%
Construction Managers	\$87,402	2,401	14%

Exploration Activities:	Work Based Learning Activities:
Shadow a building inspector or cost estimator SkillsUSA	Intern with a construction company shadowing project managers or inspectors

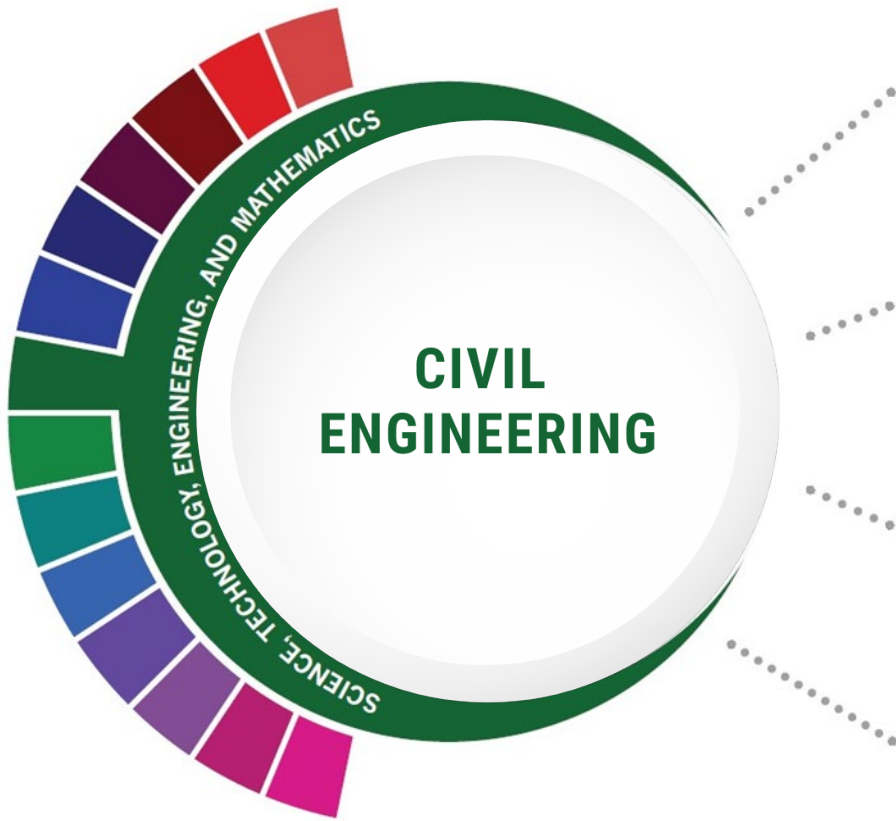
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Building Codes and Inspection program of study explores the occupations and educational opportunities associated with cost estimates for construction projects or services to aid management in bidding on or determining the price of products or services. This program of study may also include exploration into inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.



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

Successful completion of the Construction Management and Inspection program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



Principles of Civil Engineering
[77611/2 PRAPPENG 13036200]

Level 1

Credits: 1

Civil Engineering I
[79711/2 ACDCLEEC
13036800]

Level 2

Credits: 1

Civil Engineering II
[73121/2 ENGDPRS 13037300]

Level 3

Credit: 1

Practicum in STEM
[75661/2 PRCSTEM1 13037400]

OR

Level 4

Credit: 2

Engineering Mathematics
[26121/2 ENGMATH 13036700]

Credit: 1

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User (ACU)-Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering
Certified SolidWorks Associate (CSWA)	Fluid Power Systems Designer	Drafting and Design Technician/Technician, General	CAD/CADD Drafting and/or Design Technician/Technician	Mechanical Engineering
Certified Engineering Technician-Audio Systems	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Biomedical Engineering
	Certified Cost Estimator/Analyst		Construction Engineering Technology/Technician	

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,107	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	10%

Exploration Activities:	Work Based Learning Activities:
Participate in competitions like Skills USA	Engineering internship Job shadow a machinist

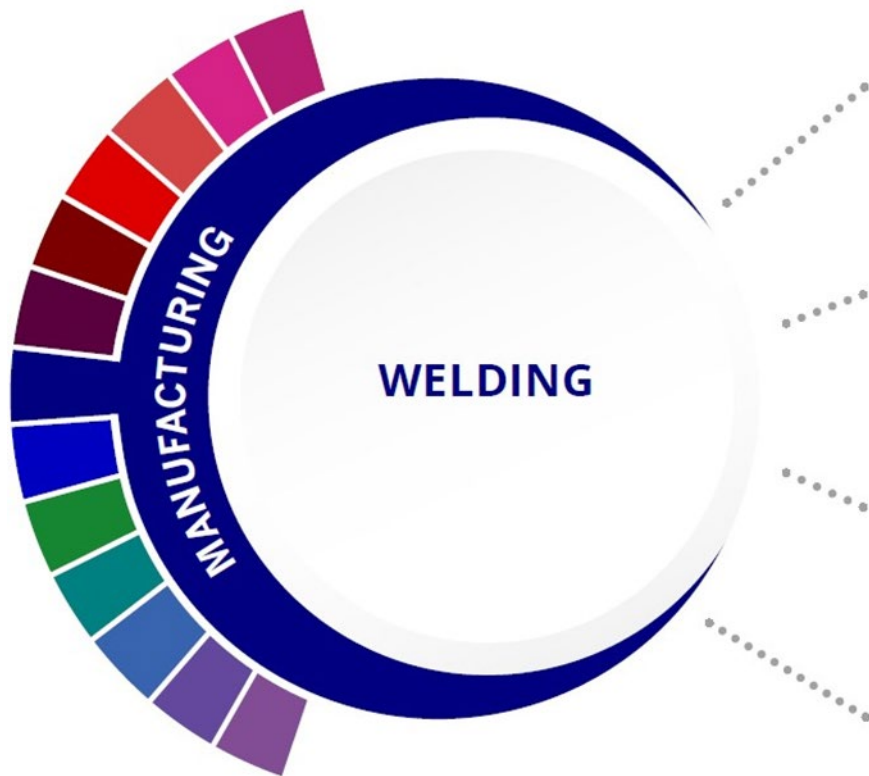
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. CTE learners 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.

Successful completion of the Engineering program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Construction
[76851/2 PRICON 13004220]

Level 1

Credit: 1

Introduction to Welding

[79491/2 INTROWELD 13032250]

Level 2

Credit: 1

Welding I

[78651/2 WELD1 13032300]

Level 3

Credit: 2

Practicum in Welding

[79761/2 PRACMAN1 13033000]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
AWS Certified Welder, D1.1, D9.1	Certified Welder or Welder Inspector	Certified Welder or Welder Inspector	Welding Engineering Technology/ Technician	Welding Engineering Technology/ Technician
ASW SENSE Level 1	Machining Level 1 - CNC Milling: Programming Setup & Operations	Machine Shop Technology/ Assistant	Biomedical Technology/ Technician	Occupational Health and Industrial Hygiene
API 1104 Welding Certificate	Certified Welding Engineering	Operations Management and Supervision	Operations Management and Supervision	Operations Management and Supervision
NCCER Welding, Level 1	Certified Environmental, Safety, and Health Trainer	Occupational Safety and Health Technology/ Technician	Environmental Health	Environmental Health

Occupations	Median Wage	Annual Openings	% Growth
Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%

Exploration Activities:	Work Based Learning Activities:
Participate and compete in SkillsUSA Job shadow a machinist	Apprenticeship at a local business or industry American Welding Society

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.



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

SCHOOL OF BUSINESS AND ENTREPRENEURSHIP

MACARTHUR HIGH SCHOOL





Level 1	Principles of Business, Marketing, and Finance [74361/2 PRINBMF 13011200]
	Credit: 1
Level 2	Business Information Management II [74381/2 BUSIM2SOBE 13011500]
	Credit: 1
Level 3	Business Management [78481/2 BUSMGTSOBE 13012100]
	Credit: 1
	Business Management - Honors Dual Credit [78541/2 BUSMGTSOBEH/DC 13012100]
	Credit: 1
Level 4	Practicum in Business Management [78491/2 PRACBM 13012200]
	Credit: 2
	Business Law [74391/2 BUSLAW 13011700]
	Credit: 1

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE	Occupations	Median Wage	Annual Openings	% Growth
Microsoft Office Specialist or Expert-Excel	Certified Records Manager	Business Administration	Business Administration	Business Administration	Administrative Service Managers	\$96,138	2,277	21%
Microsoft Office Specialist or Expert - Word	Certified Facility Manager	Business/Commerce	Business/Commerce	Business Management	Management Analysts	\$87,651	4,706	32%
Google Cloud Certified Professional – G-Suite	Certified Commercial Contracts Manager	Public Administration	Public Administration	Public Administration	General and Operations Managers	\$107,640	18,679	20%
Certified Associate in Project Management	Teradata 14 Basics/ Certified Technical Specialist	Business Management	Management Science	Management Science	Operations Research Analysts	\$78,083	1,128	38%
					Supervisors of Administrative Support Workers	\$57,616	14,982	20%
					Exploration Activities: Business Professional of America (BPA), Future Business Leaders of America (FBLA), and DECA		Work Based Learning Activities: Internship with local business or chamber of commerce	

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Business Management 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.



Level 1

Credit: 1

Retail Management

[778991/2 REMGMT N1303420]

Level 2

Credit: 1

Practicum in Marketing I

[75571/2 PRACMKT1 13034800]

Level 3

Credit: 2

Practicum in Marketing II

[76641/2 PRACMKT2 13034810]

Level 4

Credit: 2

OR

Advanced Marketing

[75561/2 ADVMKTG 13034700]

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert - Excel	Certified Product Manager	Marketing/ Marketing Management, General	Marketing/ Marketing Management, General	Marketing
Microsoft Office Specialist or Expert - Word	DMA Certified Marketing Professional	Consumer Merchandising/ Retailing Management	Business Administration	Business Administration
Google Analytics Individual Qualification	Certified Salesperson	International Marketing	Applied Economics	Applied Economics
Entrepreneurship and Small Business	Real Estate Appraiser	Business	Marketing Research	Advertising

Occupations	Median Wage	Annual Openings	% Growth
Marketing Research Analysts and Marketing Specialists	\$70,346	4,664	40%
Insurance Sales Agents	\$43,181	5,886	30%
First-Line Supervisors of Retail Sales Workers	\$72,550	2,826	15%
Wholesale and Retail Buyers	\$51,106	1,229	19%

Exploration Activities:	Work Based Learning Activities:
Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA	Internship with local marketing firm; shadow a real estate agent; operate a school store on campus

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Marketing and Sales program of study teaches CTE learners 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.



**Principles of Business,
Marketing, and Finance**
[74361/2 PRINBMF 13011200]

Level 1

Credit: 1

Fundamentals of Real Estate
[78981/2 FUNDRE N1301120]

Level 2

Credit: 2

Practicum in Real Estate I
[79791/2 PRACMKT1REM
13034800]

Level 3

Credit: 2

Practicum in Real Estate II
[79801/2 PRACMKT2REM
13034810]

Level 4

Credit: 2

OR

Advanced Marketing
[75561/2 ADVMKTG 13034700]

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert - Excel	Certified Product Manager	Marketing/ Marketing Management, General	Marketing/ Marketing Management, General	Marketing
Microsoft Office Specialist or Expert - Word	DMA Certified Marketing Professional	Consumer Merchandising/ Retailing Management	Business Administration	Business Administration
Google Analytics Individual Qualification	Certified Salesperson	International Marketing	Applied Economics	Applied Economics
Entrepreneurship and Small Business	Real Estate Appraiser	Business	Marketing Research	Advertising

Occupations	Median Wage	Annual Openings	% Growth
Marketing Research Analysts and Marketing Specialists	\$70,346	4,664	40%
Insurance Sales Agents	\$43,181	5,886	30%
First-Line Supervisors of Retail Sales Workers	\$72,550	2,826	15%
Wholesale and Retail Buyers	\$51,106	1,229	19%

Exploration Activities:	Work Based Learning Activities:
Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA	Internship with local marketing firm; shadow a real estate agent; operate a school store on campus

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Marketing and Sales program of study teaches CTE learners 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



**Principles of Business,
Marketing, and Finance**
[74361/2 PRINBMF 13011200]

Level 1

Credit: 1

**Mobile Applications
Development**
[78951/2 TAMBAD
03580390]

Level 2

Credit: 1

Business Incubator I
[77261/2 PRACMKT1 INC
13034800]

Level 3

Credit: 2

Business Incubator II
[78851/2 PRACKMKT2 INC
13034810]

Level 4

Credit: 2

Advanced Marketing
[75561/2 ADVMKTG 13034700]

OR

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Expert - Excel	Certified Facility Manager	Business Administration and Management	Business Administration and Management	Business Administration and Management
Microsoft Office Expert - Word	Certified Management Accountant	Business/ Commerce	Business/ Commerce	Business/ Commerce
Entrepreneurship and Small Business	Certified Project Consultant	Public Administration	Public Administration	Public Administration
	Accredited Management Consultant	Business Management	Management Science	Management Science

Occupations	Median Wage	Annual Openings	% Growth
General and Operations Managers	\$107,640	18,679	20%
Management Analysts	\$87,651	4,706	32%
Managers, All Others	\$113,110	1,794	26%

Exploration Activities:	Work Based Learning Activities:
Business Professionals of America (BPA) Future Leaders of America (FBLA) DECA: An Association of marketing Students	Internship with local management consulting firm

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Entrepreneurship program of study teaches CTE learners 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.



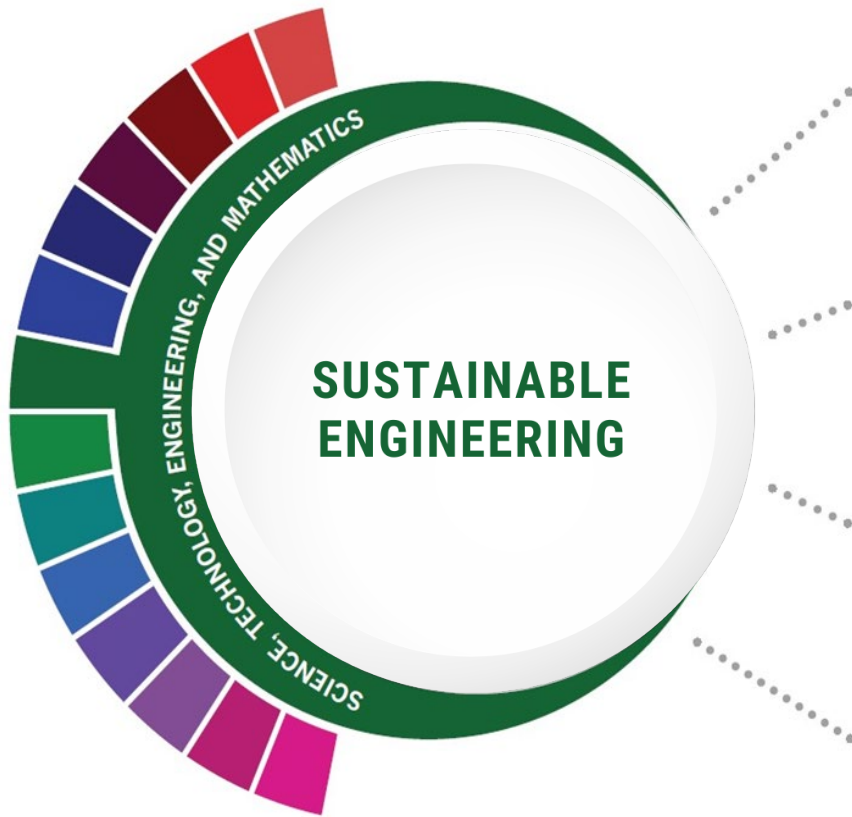
The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Successful completion of the Entrepreneurship program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020

SCHOOL OF SUSTAINABLE ENGINEERING

NIMITZ HIGH SCHOOL





Level 1 Principles of Applied Engineering
[77941/2 PRAPPENG 13036200]

Credits: 1

Level 2 Introduction to Computer-Aided Design and Drafting
[72171/2 INTRCADD 13037350]

Credit: 1

Level 3 Scientific Research & Design
[35261/2 SCIRD 13037200]

Credits: 1

Engineering Design and Presentation I
[73121/2 ENGDSPR 13036500]

Credits: 1

Practicum in S.T.E.M
[75661/2 PRACSTEM1 13037400]

Credits: 2

OR

Level 4

Or

Engineering Math
[261611/2 ENGMATH 13036700]

Credits: 1

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User (ACU)-Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering
Certified SolidWorks Associate (CSWA)	Fluid Power Systems Designer	Drafting and Design Technology/ Technician, General	CAD/CADD Drafting and/or Design Technology/ Technician	Mechanical Engineering
Certified Engineering Technician-Audio Systems	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Biomedical Engineering
	Certified Cost Estimator/Analyst		Construction Engineering Technology/ Technician	

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,107	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	10%

Exploration Activities:	Work Based Learning Activities:
Participate in competitions like Skills USA	Engineering internship Job shadow a machinist

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. CTE learners will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.



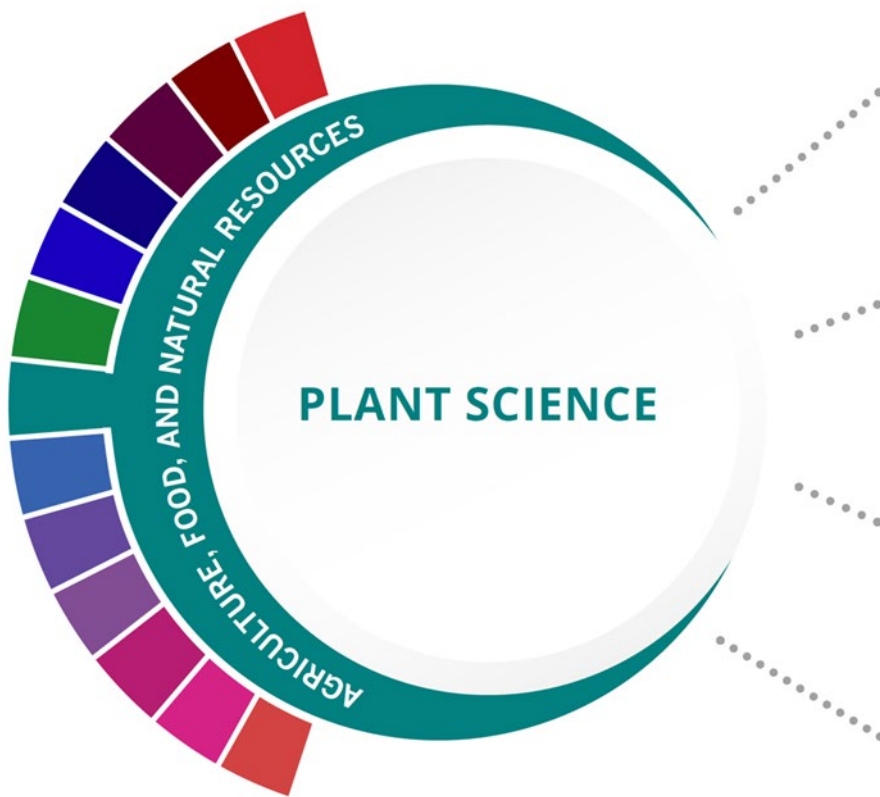
The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Successful completion of the Engineering program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised - July 2020

SCHOOL OF AGRICULTURAL SCIENCE

NIMITZ HIGH SCHOOL





Principles of Agriculture
[74001/2 PRINAFNR 13000200]

Level 1

Credit: 1

Floral Design
[74071/2 FLORAL 13001800]

Level 2

Credit: 1

Greenhouse Operations
[77491/2 GREOP 13002050]

Credit: 1

Or

Level 3

Advanced Floral Design
[77411/2 ADVFLDES N1300270]

Credit: 1

Practicum in Agriculture
[73271/2 PRACAGFNR2 13002510]

Credit: 2

Or

Level 4

Practicum in Floral
[78861/2 PRACFLORAL1 1302500]

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Landscape Irrigation Technician License	Pesticide Applicator	Applied Horticulture/ Horticulture Operations, General	Applied Horticulture/ Horticulture Operations, General	Applied Horticulture/ Horticulture Operations, General
Commercial/ Noncommercial Pesticide Applicator	Certified Floral Designer	Ornamental Horticulture	Agronomy and Crop Science	Agronomy and Crop Science
Texas State Floral Association Level One Floral Certification	Accredited Member of AIFD	Agricultural Business and Management, General	Agricultural Business and Management, General	Agricultural Business and Management, General
Texas State Floral Association Level Two Floral Certification	Landscape Industry Certified Technician	Turf and Turfgrass Management	Turf and Turfgrass Management	Farm/Farm and Ranch Management

Occupations	Median Wage	Annual Openings	% Growth
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	\$36,733	196	22%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

Exploration Activities:	Work Based Learning Activities:
Texas FFA	Work part-time at a florist, start or work for a local landscaping business FFA Supervised Agriculture Experience (SAE)

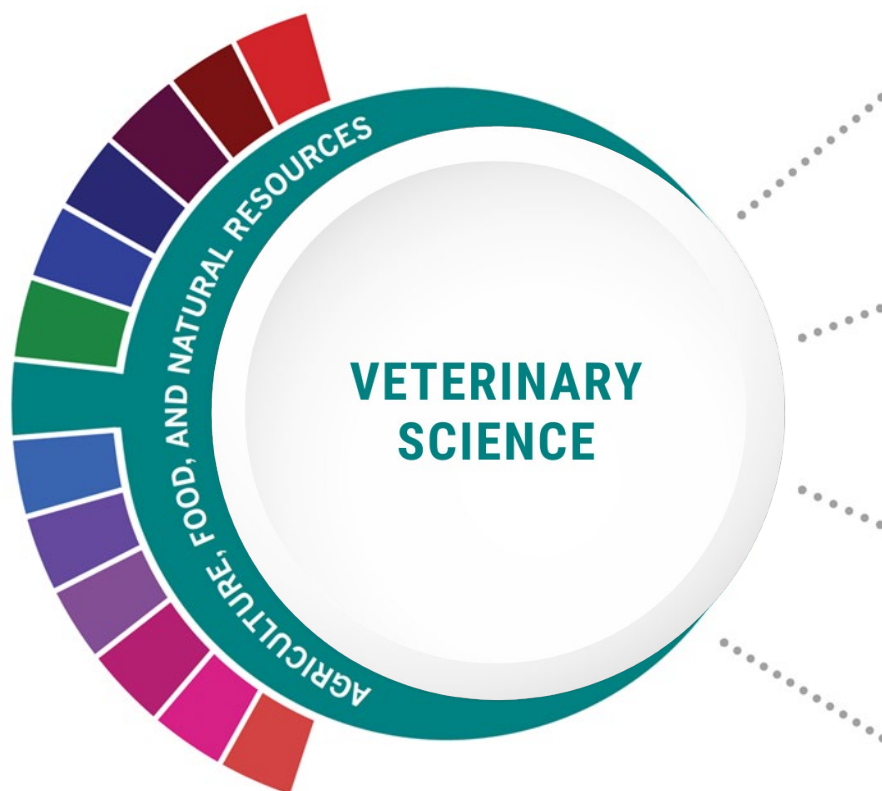
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.



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. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Successful completion of the Plant Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



Principles of Agriculture [74001/2 PRINAFNR 13000200]	
Credit: 1	AND
Level 1	
Small Animal Management [74014 SMANIMGT 13000400]	
Credits: .5	
Veterinary Applications – Large Animal [77511/2 VETAPPLARGE 13000300]	
Credits: 1	AND
Level 2	
Equine Science [74024 EQUINSQ 13000500]	
Credits: .5	
Veterinary Medical Applications [74031/2 VETMEDAP 13000610]	
Credits: 2	
Level 3	
Advanced Animal Science [36111/2 ADVANSQ 13000700]	
Credits: 1	OR
Level 4	
Practicum in Veterinary Science [77531/2 AGVET 13002500]	
Credits: 2	

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Licensed Veterinary Technician	Pet Groomer	Food Science and Technology	Animal Sciences	Genetics
Feedyard Technician in Cattle Care and Handling	Veterinary Technician	Veterinary Studies	Agriculture	Veterinary Medicine
Certified Veterinary Assistant	Licensed Breeder	Biotechnology Laboratory Technician	Biology	Biological and Physical Sciences
		Biology Technician	Zoology/ Animal Biology	Biological and Biomedical Sciences

Occupations	Median Wage	Annual Openings	% Growth
Animal Breeders	\$39,135	28	9%
Animal Scientists	\$57,533	22	12%
Medical Scientists	\$63,898	435	27%
Veterinarians	\$93,496	294	24%
Zoologists and Wildlife Biologists	\$67,309	45	32%

Exploration Activities:	Work Based Learning Activities:
Texas FFA	Agri-Science Fair 4H Volunteer at a local farm or veterinary office FFA Supervised Agriculture Experience (SAE)

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches CTE learners 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.



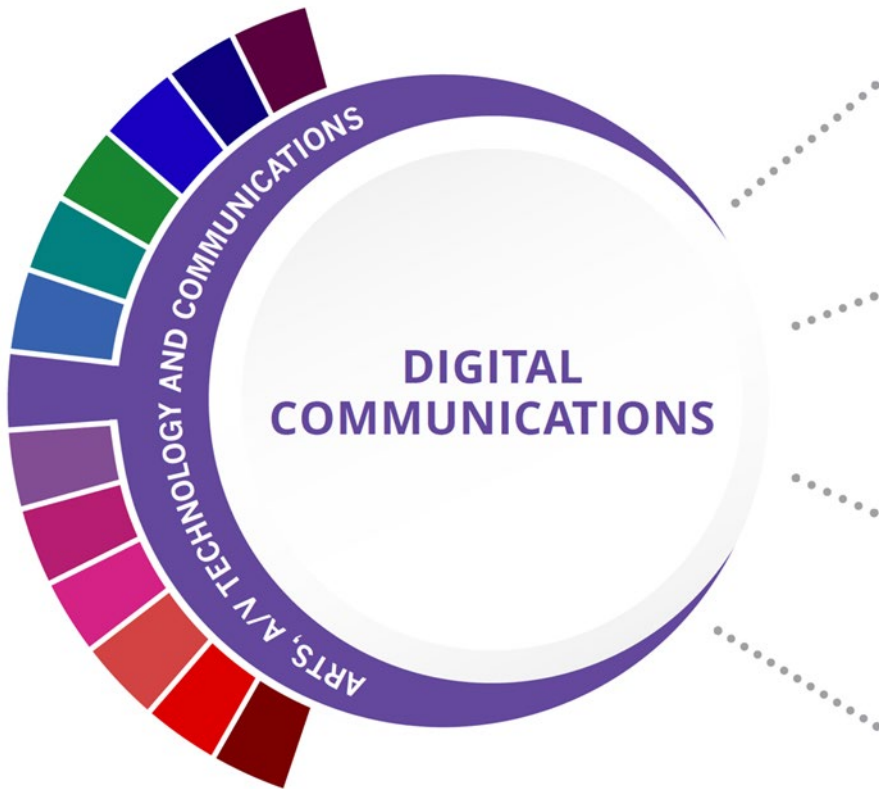
The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020

ADDITIONAL CAREER PATHWAYS

Irving HS, MacArthur HS, Nimitz HS





Principles of Arts, Audio/Video Technology and Communications
[74221/2 PRINAAVTC 13008200]

Level 1

Credit: 1

Audio/Video Production I
[74251/2 AVPROD1 13008500]

Level 2

Credit: 1

Audio/Video Production II
[76531/2 AVPLAB2 13008610]

Level 3

Credit: 2

Practicum in Audio/Video Production / Extended
[76571/2 EXPRAVP1 13008705]

Level 4

Credit: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Apple Final Cut Pro X	Certified Video Engineer	Recording Arts Technology/ Technician	Recording Arts Technology/ Technician	Communications Technology/ Technician
Apple Logic Pro X	Commercial Audio Technician	Cinematography and Film/ Video Production	Cinematography and Film/ Video Production	Cinematography and Film/ Video Production
Adobe Certified Associate Premiere Pro	Certified AM Directional Specialist	Radio and Television Broadcasting Technology/ Technician	Radio and Television	Radio and Television
Adobe Certified Associate Certifications	Certified Broadcast Radio Engineer	Music Technology	Agricultural Communication/ Journalism	Agricultural Communication/ Journalism

Occupations	Median Wage	Annual Openings	% Growth
Sound Engineering Technicians	\$39,562	79	27%
Camera Operators, Television, Video and Motion Picture	\$50,024	129	9%
Audio and Video Equipment Technicians	\$40,581	757	29%
Film and Video Editors	\$47,382	118	23%

Exploration Activities:	Work Based Learning Activities:
Shadow a production team Participate in SkillsUSA or TSA	Intern at a local television station or video production company Work with a local company on a project

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

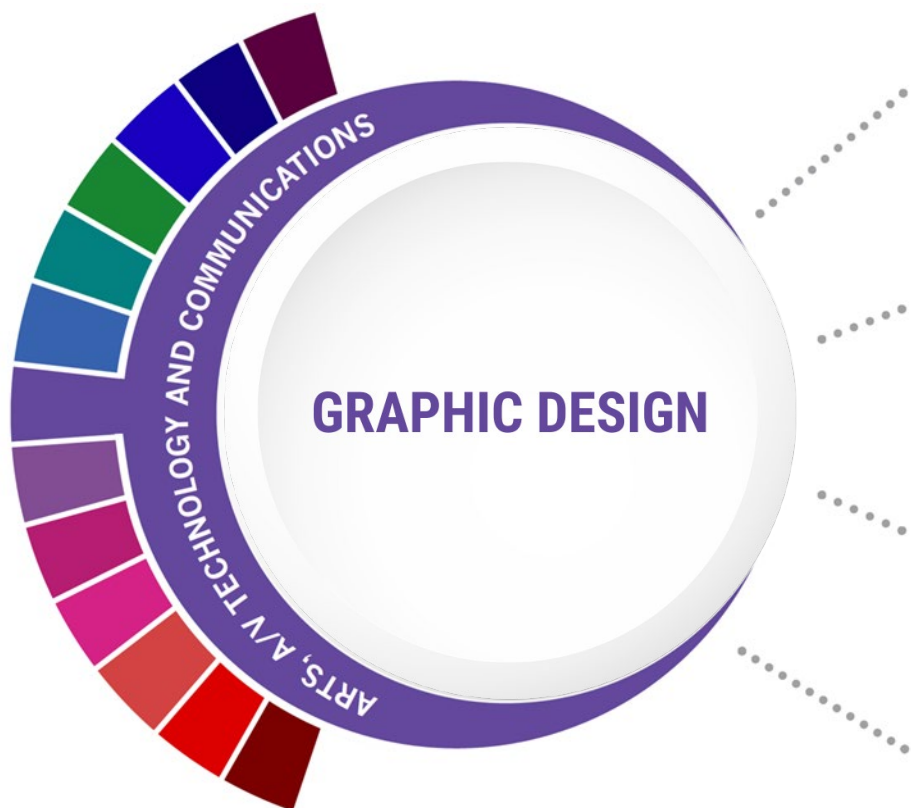
The Digital Communications program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration 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.

Statewide Program of Study: Digital Communications; Arts, A/V Technology and Communications career cluster



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 Digital Communications program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



**Principles of Arts,
Audio/Video Technology and
Communications**
[74221/2 PRINAAVTC 13008200]

Level 1

Credit: 1

**Graphic Design and
Illustration I**
[74291/2 GRAPHDI1 13008800]

Level 2

Credit: 1

**Graphic Design and
Illustration II Lab**
[76581/2 GRDLAB2 D/C
13008910] Dual credit
[76601/2 GRDLAB2 13008910]
Non-dual

Level 3

Credit: 2

**Practicum in Graphic
Design and Illustration**
[74281 PRACGRD1 13009000]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Associate Certifications	Certified Digital Designer	Animation, Interactive Technology, Video Graphics and Special Effects	Animation, Interactive Technology, Video Graphics and Special Effects	Animation, Interactive Technology, Video Graphics and Special Effects
Adobe Certified Expert Certifications	WOW Certified Web Designer Apprentice	Graphic Design	Graphic Design	Graphic Design
Apple Logic Pro X	Adobe Suite Certifications	Game and Interactive Media Design	Game and Interactive Media Design	Intermedia/ Multimedia

Occupations	Median Wage	Annual Openings	% Growth
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

Exploration Activities:	Work Based Learning Activities:
Join a website development or coding club. Participate in SkillsUSA or TSA	Intern with a multimedia or animation studio. Obtain a certificate or certification in graphic design.

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Design and Multimedia Arts program of study 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 the Business and Industry Endorsement.
Revised - July 2020



Level 1	Principles of Business, Marketing, and Finance [74361/2 PRINBMF 13011200] Credit: 1
Level 2	Global Business [74404 GLOBBUS 13011800] Credit: .5
	Human Resources Management [74424 HRMGT 13011900] Credit: .5
Level 3	Business Management [74441/2 BUSMGT 13012100] Credit: 1
	Business Law [74391/2 BUSLAW 13011700] Credit: 1
Level 4	Practicum in Business Management [74451/2 PRACBM 13012200] Credit: 2

AND

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert- Excel	Certified Records Manager	Business Administration	Business Administration	Business Administration
Microsoft Office Specialist or Expert - Word	Certified Facility Manager	Business/ Commerce	Business/ Commerce	Business Management
Google Cloud Certified Professional – G-Suite	Certified Commercial Contracts Manager	Public Administration	Public Administration	Public Administration

Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Supervisors of Administrative Support Workers	\$57,616	14,982	20%

Exploration Activities:	Work Based Learning Activities:
Business Professional of America (BPA), Future Business Leaders of America (FBLA), and DECA	Internship with local business or chamber of commerce

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Business Management 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 Business Management program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



Level 1	Principles of Business, Marketing, and Finance [74361/2 PRINBMF 13011200]	Credit: 1
Level 2	Social Media Marketing [76634 SMEDMKTG 13034650] Virtual Business [74434 MRTBUS 13012000]	Credit: .5 AND Credit: .5
Level 3	Advanced Marketing [75561/2 ADVMTG 13034700]	Credit: 2
Level 4	Practicum in Marketing [75571/2 PRACMKT1 13034800]	Credit: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert - Excel	Certified Product Manager	Marketing/Marketing Management, General	Marketing/Marketing Management, General	Marketing
Microsoft Office Specialist or Expert - Word	DMA Certified Marketing Professional	Consumer Merchandising/Retailing Management	Business Administration	Business Administration
Google Analytics Individual Qualification	Certified Salesperson	International Marketing	Applied Economics	Applied Economics
Entrepreneurship and Small Business	Real Estate Appraiser	Business	Marketing Research	Advertising

Occupations	Median Wage	Annual Openings	% Growth
Marketing Research Analysts and Marketing Specialists	\$70,346	4,664	40%
Insurance Sales Agents	\$43,181	5,886	30%
First-Line Supervisors of Retail Sales Workers	\$72,550	2,826	15%
Wholesale and Retail Buyers	\$51,106	1,229	19%

Exploration Activities:	Work Based Learning Activities:
Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA	Internship with local marketing firm; shadow a real estate agent; operate a school store on campus

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Marketing and Sales program of study teaches CTE learners 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



Principles of Education and Training
[74461/2 PRINEDTR 13014200]

Level 1

Credit: 1

Human Growth and Development
[79361/2 HUGRDEV 13014300]
Dual Credit
[74471/2 HUGRDEV 13014300]
Non-dual Credit

Level 2

Credit: 1

Instructional Practice
[79381/2 INPRAC 13014400]
Dual Credit
[74481/2 INPRAC 13014400]
Non-dual Credit

Level 3

Credit: 2

Practicum in Education and Training
[79391/2 PRACEDT1 13014500]
Dual Credit
[74491/2 PRACEDT1 13014500]
Non-dual Credit

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Educational Aide I	Texas Educator Certification Program	Teacher Education	Bilingual and Multilingual Education	Instruction and Learning
	Educational Instructional Technology	Education, General (or specific subject area)	Education, General (or specific subject area)	Educational Leadership and Administration, General
	Counselor, Professional	Special Education	Special Education	Special Education
	Athletic Trainer	Health and Physical Education/ Fitness	Health and Physical Education/ Fitness	Social and Philosophical Foundations of Education

Occupations	Median Wage	Annual Openings	% Growth
Adult Basic and Secondary Education and Literacy Teachers and Instructors	\$48,069	862	17%
Middle School Teachers, Except Special and Career/ Technical Education	\$54,510	6,407	15%
Career and Technical Education Teachers, Secondary School	\$56,360	719	9%
Special Education Teachers, Secondary School	\$56,720	980	18%

Exploration Activities:	Work Based Learning Activities:
Texas Association of Future Educators, or Family, Career and Community Leaders of America	Teach a community education class; intern as a teaching assistant or tutor; serve as a camp counselor.

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Teaching and Training program of study prepares CTE learners for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE learners 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



Level 1

Credit: 1

Foundations of Restaurant Management

[79811/2 RESTMGMT N1302268]

Level 2

Credit: 1

Hospitality Services

[75691/2 HOSPSRVS 13022800]

Level 3

Credit: 2

Practicum in Hospitality Services

[74761/2 PRACHOS1 13022900]

Level 4

Credit: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Certified Hospitality & Tourism Management Professional	Certified Hospitality Supervisor	Hotel/Motel Administration/Management	Hospitality Administration/Management, General	Hospitality Administration/Management, General
Certified Associate in Project Management	Certified Hotel Administrator	Business Administration and Management, General	Business Administration and Management, General	Business Administration and Management, General
Entrepreneurship and Small Business	Certification in Hotel Industry Analytics	Tourism and Travel Services Management	Hotel and Restaurant Management	Hospitality Administration
	Certified Guest Service Professional	Business Administration and Management	Marketing/Management, General	Marketing/Management, General

Occupations	Median Wage	Annual Openings	% Growth
General and Operations Managers	\$107,640	18,679	20%
Lodging Managers	\$48,381	396	19%
Administrative Services Managers	\$96,138	2,277	21%
Meeting, Convention, and Event Planners	\$47,446	1,083	21%

Exploration Activities:	Work Based Learning Activities:
Family, Career, and Community Leaders of America (FCCLA), American Hotel and Lodging Association	Intern at a resort or lodging property; work at a hotel, summer camp or theme park

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Lodging and Resort Management program of study introduces CTE learners 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.



Principles of Hospitality and Tourism
[74671/2 PRINHOSP 13022200]

Level 1

Credit: 1

Foundations of Restaurant Management
[79811/2 RESTMGMT N1302268]

Level 2

Credit: 1

Culinary Arts
[74721/2 CULARTS 13022600]

Level 3

Credit: 2

Practicum in Culinary Arts
74731/2 PRACCUL1 13022700]

Level 4

Credit: 2

HIGH SCHOOL/INDUSTRY CERTIFICATION	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/DOCTORAL PROFESSIONAL DEGREE
Certified Fundamentals Cook	Certified Chef	Hotel and Restaurant Management	Hotel and Restaurant Management	Hotel and Restaurant Management
Certified Fundamentals Pastry Cook	Foodservice Management Professional	Restaurant Culinary and Catering Management	Food Service Systems Administration/Management	Food Service Systems Administration/Management
ServSafe Manager	Comprehensive Food Safety	Hospitality Administration/Management, General	Hospitality Administration/Management, General	Hospitality Administration/Management, General
ManageFirst Professional	Certified Food and Beverage Executive	Culinary Arts/Chef Training	Culinary Science and Food Service Management	Business Administration Management, General

Occupations	Median Wage	Annual Openings	% Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%

Exploration Activities:	Work Based Learning Activities:
Family, Career, and Community Leaders of America (FCCLA), SkillsUSA, American Culinary Federation, Texas Restaurant Association	Plan a catering event or work for a catering company; participate in a cooking course; work in a restaurant; cook at home

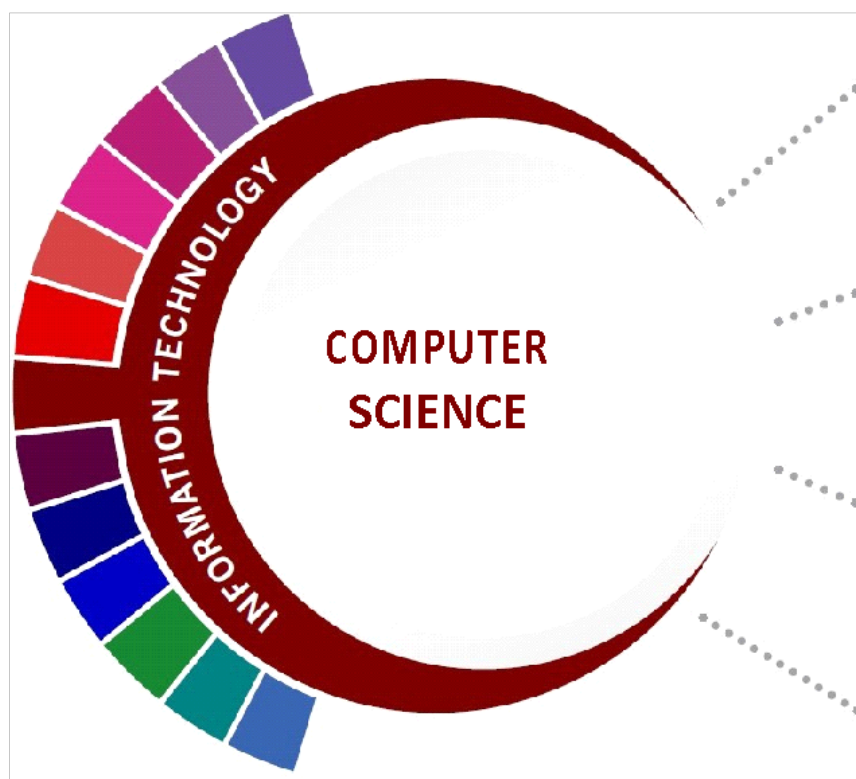
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Culinary Arts program of study introduces CTE learners 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



Fundamentals of Computer Science

[79591/2 TAFCS 03580140]

Level 1 Credit: 1

Computer Science I
[75101/2 TACS1 03580200]

Credit: 1

Level 2

Computer Science II
[75111/2 TACS2 03580300]

Credit: 1

Level 3

**Independent Study in Evolving/
Emerging Technologies**

[73021/2 TAINDET1 03581500]

Credit: 1

**AP
Course
Options**

AP Computer Science Principles
[75181/2 APCSPRIN A3580300]

Credit: 1

AP Computer Science A, MATH
[75191/2 APTACSAM A3580110]

Credit: 1

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Oracle Certified Associate Java SE 8	AEM 6 Developer	Computer Programming/ Programmer, General	Web/ Multimedia Management and Webmaster	Computational Science
WD Certified Web Design Certification	Certified Webmaster Professional	Computer Science	Computer Science	Computer Science
Microsoft Technology Associate Introduction to Programming Certifications	Adobe Campaign Developer	Web Page, Digital/ Multimedia and Information Resources Design	Web Page, Digital/ Multimedia and Information Resources Design	Information Science/ Studies
	IBM Certified Solution Developer – Open Social	Computer Systems Networking and Tele- communications	Computer Systems Networking and Tele- communications	Computer Systems Networking and Tele- communications

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Web Developers	\$67,912	1,079	39%
Web Administrators, Computer Occupations	\$85,197	1,616	20%
Software Developers	\$104,499	6,311	30%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

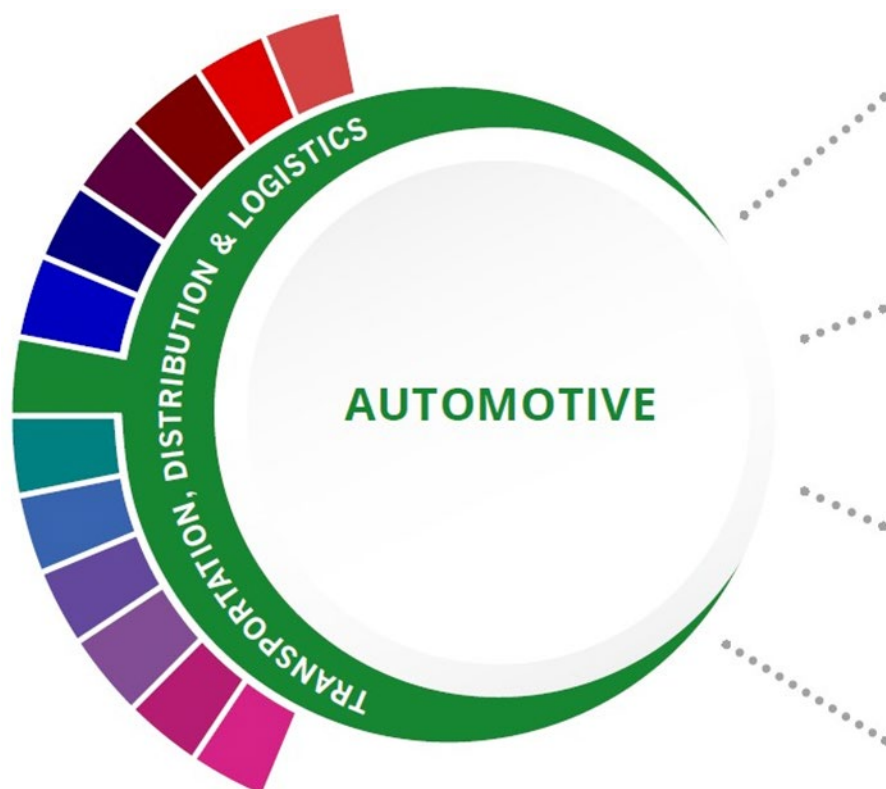
Exploration Activities:	Work Based Learning Activities:
Join TSA Participate in a coding or computer programming club Create a web page	Get an Oracle or CISCO Certification

The Web Development program of study explores the occupations and educational opportunities associated with designing, creating, and modifying websites. This program of study may also explore integrating websites with other computer applications, and converting written, graphic, audio, and video components to compatible web formats by using software designed to facilitate the creation of web and multimedia content.



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 Web Development program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



General Employability Skills
[78591/2 GEMPLS N1270153]

Level 1

Credit: 1

Automotive Technology I
[75731/2 AUTOTEC1 13039600]

Level 2

Credit: 2

Automotive Technology II
[75741/2 AUTOTEC2 13039700]

Level 3

Credit: 2

Practicum in Transportation Systems Extended
[76731/2 EXPRTS1 13040455]

Level 4

Credit: 3

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Automotive Service Excellence (ASE) Entry Level	Master Collision Repair and Refinishing Technician	Autobody/ Collision and Repair Technology/ Technician		Mechanical Engineering
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: various systems and parts	Medium/Heavy Vehicle and Truck Technology/ Technician		
	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician	Mechanical Engineering/ Mechanical Technology/ Technician	
	Collision Repair and Refinish			

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	5,557	18%

Exploration Activities:	Work Based Learning Activities:
SkillsUSA competition Automotive Service Association	Work at a local automotive repair or body shop.

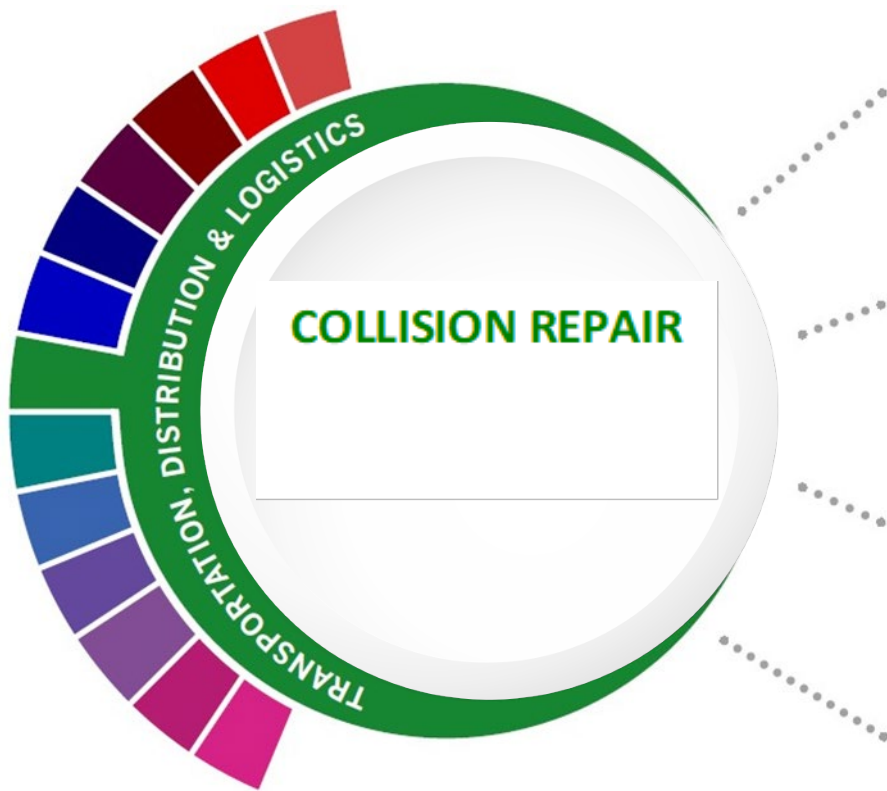
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners 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



General Employability Skills

[78591/2 GEMPLS N1270153]

Level 1

Credit: 1

Collision Repair

[75751/2 COLLISR 13039800]

Level 2

Credit: 2

Paint and Refinishing

[75761/2 PAINTREF 13039900]

Level 3

Credit: 2

Practicum in Transportation Systems Extended

[76731/2 EXPRTSR1 13040455]

Level 4

Credit: 3

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Automotive Service Excellence (ASE) Entry Level	Master Collision Repair and Refinishing Technician	Autobody/ Collision and Repair Technology/ Technician		Mechanical Engineering
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: various systems and parts	Medium/Heavy Vehicle and Truck Technology/ Technician		
	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician	Mechanical Engineering/ Mechanical Technology/ Technician	
	Collision Repair and Refinish			

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	5,557	18%

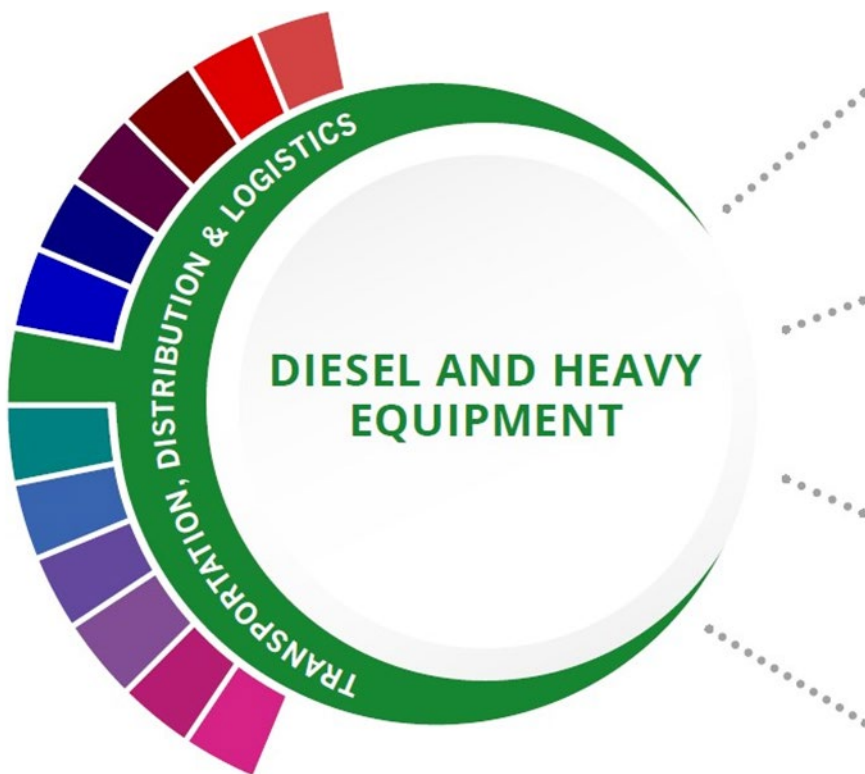
Exploration Activities:	Work Based Learning Activities:
SkillsUSA competition Automotive Service Association	Work at a local automotive repair or body shop.

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners 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.



General Employability Skills
[78591/2 GEMPLS N1270153]

Level 1

Credit: 1

Diesel Equipment Technology I
[76741/2 DIEQTEC1 13040150]

Level 2

Credit: 2

Diesel Equipment Technology II
[76751/2 DIEQTEC2 13040160]

Level 3

Credit: 2

Practicum in Transportation Systems / Extended
[76731/2 EXPRTS1 13040455]

Level 4

Credit: 3

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
ASE Medium/ Heavy Truck Technician, Brakes (T4)	Engine Machinist Technician	Diesel Mechanics Technology/ Technician		
ASE Medium/Heavy Truck Technician, Diesel Engines (T2)	Light Vehicle Diesel Engines	Diesel Mechanics Technology/ Technician		
ASE Medium/Heavy Truck Technician, Drive Train (T3) - Professional	Transit Bus Technician	Heavy Equipment Maintenance Technology/ Technician		
ASE Medium/ Heavy Truck Technician, Electrical/ Electronic Systems (T6)	Fluid Power Mechanic			

Occupations	Median Wage	Annual Openings	% Growth
Bus and Truck Mechanics and Diesel Engine Specialists	\$44,574	3,150	21%
Mobile Heavy Equipment Mechanics, Except Engines	\$47,299	1,627	16%

Exploration Activities:	Work Based Learning Activities:
Participate in SkillsUSA	Volunteer or work part-time for a repair shop that works on engines

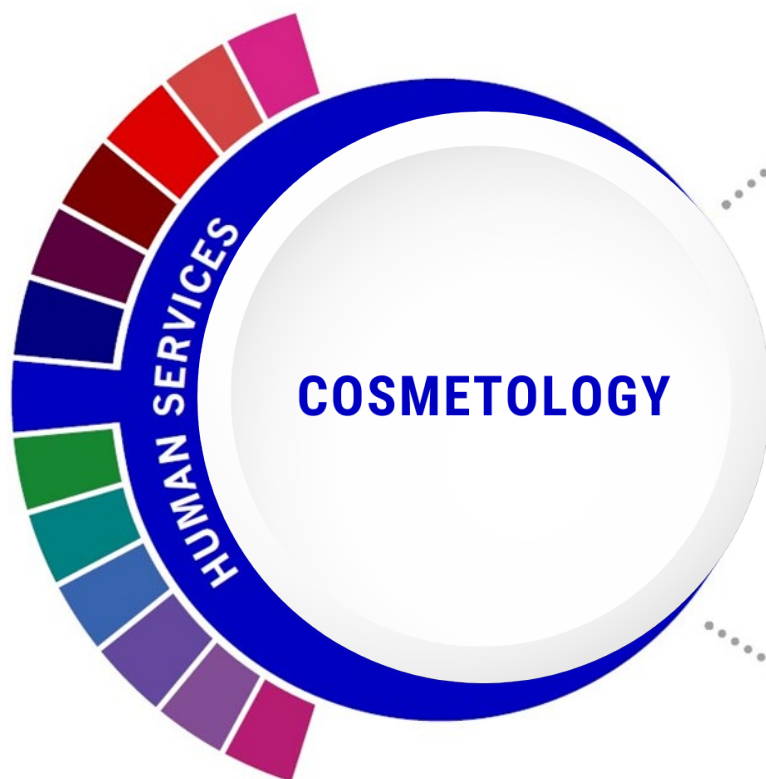
Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Diesel and Heavy Equipment program of study teaches students to diagnose, repair, modify, or redo mechanical and hydraulic equipment on crane, bulldozer, grader, conveyor, construction equipment, bus, and truck diesel engines.



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 Diesel and Heavy Equipment program of study will fulfill requirements of the Business and Industry Endorsement.
Revised - July 2020



General Employability Skills
[78591/2 GEMPLS N1270153]

Level 1

Credit: 1

Cosmetology I / LAB

[74861/2 COSMET1 13025200]

Level 2

Credit: 2

Cosmetology II/ LAB

[74871/2 COSMET2 13025300]

Level 3

Credit: 2

Practicum in Cosmetology

[72161/2 PRACCOS 13011111]

Level 4

Credit: 2

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Community Health Worker	Human Development and Family Studies	Human Development and Family Studies	Human Development and Family Studies	Human Development and Family Studies
Certified Associate in Project Management	Community Health Services/ Liaison/ Counseling	Human Services/Sciences, General	Human Services/Sciences, General	Marriage and Family Therapy/ Counseling
	Distance Credentialed Counselor	Family and Consumer Sciences	Family and Consumer Sciences	Human Services/ Sciences
	Educator Certification in Family and Consumer Sciences	Community Health Services	Child and Family Services	Family Studies

Occupations	Median Wage	Annual Openings	% Growth
Child, Family, and School Social Workers	\$41,350	2,221	17%
Social and Community Services Managers	\$65,146	608	33%
Marriage and Family Therapists	\$42,266	217	35%
Social and Human Service Assistants	\$32,448	2,822	25%
Mental Health and Substance Abuse and Behavioral Disorder Counselors	\$42,120	576	39%

Exploration Activities:	Work Based Learning Activities:
American Association of Family and Consumer Sciences, Family, Career and Community Leaders of America	Volunteer at a community center; intern for a community non-profit organization

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Family and Community Services program of study introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. CTE learners may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.



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.

JROTC

Leadership Development

Leadership Education/Military Science 1

[85131/2 ROTC 1 PES00004]

Grades: 9-12 Credits: 1/2 – 1 PE I, M, N

CAMPING/OUTDOOR ADVENTURES/TEAM BUILDING. This course includes Introduction to JROTC, Fitness, First Aid, Drill, and Marksmanship.

*This course may be used as alternative to P.E.

Leadership Education/Military Science 2

[85141/2 ROTC 2 03160200]

Prerequisite: Leadership Education/Military Science 1 AND approval of Senior JROTC Instructor

Grades: 10-12 Credits: 1/2 – 1 I, M, N

LEADERSHIP – MANAGEMENT. This course includes intermediate level of instruction and application of LE I am learning objectives. Instruction includes leadership styles and practical exercises, as well as the basic principles of management. In addition, providing self-assessments that help students determine their personal skill sets.

Leadership Education/Military Science 3

[85151/2 ROTC 3 03160300]

Prerequisite: Leadership Education/Military Science 2 AND approval of Senior JROTC Instructor

Grades: 11-12 Credits: 1/2 – 1 I, M, N

PR: Leadership Education/Military Science 2 AND approval of Senior JROTC Instructor

COMMUNICATE – PROBLEM SOLVE – PLAN. This course provides advanced-level instruction in the subjects taught in first and second year. Emphasis is placed on how the various factors (communications, problem solving, decision making, planning and supervision) affect a cadets' effectiveness as a leader. Cadets are given increased opportunities to demonstrate leadership skills in the Cadet Battalion organization and begin College/Career exploration and planning. Successful completion of the LET/MS 3 curriculum may qualify the student for advanced placement in a college ROTC program or accelerated promotion within military service.

Leadership Education/Military Science 4

[85161/2 ROTC 4 03160400]

Prerequisite: Leadership Education/Military Science 3 AND approval of Senior JROTC Instructor

Grades: 12 Credits: 1/2 – 1 I, M, N

LEAD – FOLLOW – EXERCISE. This advanced level of JROTC caps two to three years of progression in every phase of JROTC. Students selected for this course have demonstrated proficiency in Leadership Education/Military Science (LET/MS) 3 and are presented with the challenge to study self-paced course content and to complete independent exercises, case studies and vignettes in the programmed text or prescribed program study. In addition, the students are taught techniques of command and staff procedures through text and practical exercises.

Additional Courses

Irving – MacArthur - Nimitz

Professional Communications **[16394 PROFCOMM 13009900]**

Grades: 9 Credits: 1/2 I, M, N, S

MAY I HAVE YOUR ATTENTION? I WOULD LIKE TO SPEAK! You now need to begin preparing for a career in the global economy that will require you 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. Through this course, you will be prepared for the world once you have developed and expanded your ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. Are you ready?

Advertising **[75524 ADVERTIS 13034200]**

Grades 9-12 Credits: 1/2 M

Advertising is designed as a comprehensive introduction to 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, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

Entrepreneurship **[75971/2 ENTREP 13011101]**

Grades: 10-12 Credits: 1 I, N, BC

DO YOU WANT TO START YOUR OWN BUSINESS? Entrepreneurship teaches the knowledge and skills needed to become an entrepreneur. Students will learn 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 will understand the capital required, the return on investment desired, and the potential for profit.

Banking and Financial Services **[76794 BANKFIN 13016300]**

Grades: 9-12 Credits: 1/2 I, N, S

In this course, students will investigate money management from an industry 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 discuss strategies for selecting investments and understand factors that must be considered when investing.

Interpersonal Studies**[79514 INTERSTU 13024400]***Grades: 9-12 Credits: 1/2 I, M, N*

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health.

Dimensions in Diplomacy**[79551/2 N1301820 DIDPL]***Grades: 11-12 Credits: 1 I, M, N*

Dimensions of Diplomacy is designed to allow students to master the Thirteen Dimensions that candidates interested in careers with the United States Department of State must demonstrate during the selection process for internships, scholarships, fellowships, and career opportunities. Students will develop global competencies, problem-solving, decision-making, professional communication, and negotiation skills applicable to all clusters and professions but particularly relevant to international diplomacy and careers with multinational firms.

Commercial Photography**[78601/2 13009100 CPHOTO1]***Grades: 9-12 Credits: 1 I, M, N*

The field of commercial photography, where they will learn both the art and science behind capturing stunning images for various industries. They will develop essential skills such as understanding lighting, composition, and camera operation, all while focusing on creating high-quality photographs that meet the needs of clients in advertising, fashion, and product promotion. Through hands-on projects and real-world assignments, students will gain valuable insights into the commercial photography industry, including how to communicate effectively with clients, manage a photography business, and showcase their work in a professional portfolio. This course will not only enhance their technical abilities but also foster creativity and critical thinking, preparing them for successful careers in the Arts, Audio/Video Technology, and Communications Career Cluster.

Parenting Education for School Age Parents I (Counselor Recommendation)**[74921/2 PAEDSAP1 N1302536]***Grades: 9-12 Credits: 1 I, M, N***Parenting Education for School Age Parents II (Counselor Recommendation)****[74941/2 PAEDSAP2 N1302537]***Grades: 9-12 Credits: 1 I, M, N*

CTE Math and Science Courses

Engineering Mathematics

[26121/2 ENGMATH 13036700]

Grades: 11-12 Credits: 1 I, M, N, S

PR: Algebra II

This is a course where students solve and model design problems. Students will use a variety of mathematical methods and models to represent and analyze problems that represent a range of real-world engineering applications such as robotics, data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and computer programming.

Anatomy and Physiology

[35221/2 ANATPHYS 13020600]

Grades: 11-12 Credits: 1 I, M, N, S, BC

This course is designed for students to 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 will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Forensic Science

[36151/2 FORENSCI 13029500]

Grades: 11-12 Credits: 1 I, M, N, S, BC

This is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

Principles of Technology

[36181/2 PRINTECH 13037100]

Grades: 10-12 Credits: 1 S

PR: Algebra 1; 1 science

In this course, students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices.

Frequently Asked Questions

What is Honors?

Honors courses are available to students in middle and high school. These courses foster a high level of engagement and are open to any student who is willing and prepared to take on challenging course work. The course goes beyond the state standards and is designed to be appropriately rigorous to prepare students to be successful in Advanced Placement (AP) Courses. Within high school, honors courses are available in English Language Arts, Mathematics, Science, Social Studies and Languages Other Than English (LOTE).

What is AP?

Advanced Placement (AP) courses allow students to participate in college-level courses and possibly earn college credit while still in high school. This is accomplished by taking an end of course AP exam designed by The College Board.

The score earned on the AP exam determines college credit. Each university sets the standard for the qualifying score for credit. Consult your intended university for more information on awarding credit. AP courses are offered in English Language Arts, Mathematics, Social Studies, Science, Languages Other Than English, Art and Music. Students enrolled in Advanced Placement (AP) course are required to take the AP Exam for the course in May. Failure to do so will result in the loss of AP weighted points for the course in which the exam is not taken. The test fees for AP tests are paid by the school district.

What is GT?

Gifted and talented (GT) services are specifically designed for the strengths and learning needs of the gifted learner, grades K-12. Specially trained teachers provide learning opportunities with course content that is either above-grade level or goes beyond the state standards, allowing student to excel and compete at the national level. The students demonstrate skills in self-directed learning, thinking, research and communication and develop innovative products and performances that reflect creativity, individuality and professional-level quality. Students must qualify for these accelerated courses through a referral and assessment process. Gifted courses available at high school are:

English: English 2 GT, GTISM I-IV, AP Capstone Seminar and Research
Mathematics: Geometry GT, Algebra II GT Science: Chemistry GT, AP Physics 1

What is Dual Credit?

Dual Credit is a pre-college program through which qualified high school students can enroll in specifically approved classes taught by qualified high school teachers on the high school campus during normal high school hours. Students receive “dual credit”, i.e. both high school and college credit for their work.

What is Concurrent Enrollment?

High school juniors and seniors can earn college credit at the same time they are completing requirements for high school graduation. Concurrent enrollment courses are taught on the college campus by college professors and high school students can participate in classes right along with full time college students. Some concurrent enrollment courses may be taken for both college credit as well as high school credit, while other courses may be taken strictly for college credit.

Concurrent Enrollment

Students wishing to take courses at North Lake College for college credit need to see their counselor.

What is PRN and FND courses?

Principles (PRN)-Courses designed with modifications to the grade level curriculum. Enrollment in Principles level courses is based on the recommendations from the Individualized Education Program.

Fundamentals (FND)-Courses focus on the prerequisite skills to the grade level curriculum. Enrollment in fundamentals level courses is based on the recommendations from the Individualized Education Program.

**If you have any questions or concerns,
please contact your school counselor.**