



Endorsement & Program of Study Guide

2022-2023

Sulphur Springs High School

Graduation Plans: Endorsement & Programs of Study Guide

The Sulphur Springs High School Graduation Plan: Endorsements and Programs of Study Guide is designed to help students and parents make informed decisions about planning for the future. The information in this guide is a great start to that process!

This guide provides information about the high school graduation requirements and descriptions of each endorsement/program of study. Career and education requirements, local employment needs, and industry certifications offered in each career area are also included.

IMPORTANT!

Be sure to contact the Director of College and Career Readiness or a guidance counselor about the important decisions that you will be making.

Contact Information

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Graduation Requirements for Students Entering 9th Grade

The 83rd Texas Legislature passed House Bill 5 into law changing the high school graduation plans for all students who were freshman during the 2014-15 school year and thereafter. The change requires a direct focus on College and Career Readiness and allows flexibility to meet the needs of each individual student. The graduation requirements include:

1. **Achieve mastery of End of Course Exams (EOC)** in: English I, English II, Algebra I, Biology, and U.S. History.
2. **Complete all requirements from the Foundation High School Plan (FHSP)** – Basic course credits that all students must complete.
3. **Complete all requirements for a minimum of one Endorsement** – Additional credits required to pursue college and/or career goals.

Students must declare their preferred Endorsement(s) in writing by the beginning of their 9th grade year. Students may change their Endorsement(s) with parental notification during their 9th grade year or at the beginning of their 10th grade year. By the end of the student's 10th grade year, no endorsement changes can be made.

Credits Required to Graduate:

Sulphur Springs High School requires students to earn 27 credits on the Foundation High School Plan with an Endorsement:

| SSHS Foundation High School Plan with Endorsement | 27 Credits |
|---|------------|
| English Language Arts | 4 |
| Mathematics | 4 |
| Science | 4 |
| Social Studies | 4 |
| Foreign Language | 2 |
| Fine Arts | 1 |
| Physical Education | 1 |
| Technology | 1 |
| Personal Health & Finance (Lifetime Nutrition & Wellness/Dollars & Sense) | 1 |
| Electives (4 must satisfy Endorsement curriculum requirements) | 5 |
| Total Credits | 27 |

The Texas Education Code, Section 28.025(b), allows a student to graduate under the Foundation High School Program without earning an endorsement if, after the student's sophomore year, the student and the student's parent/guardian are notified of the benefits of graduating with an endorsement and the student's parent/guardian gives written permission for the student to opt out of an endorsement. Under the Foundation High School Plan without an endorsement, students are required to complete 27 credits to graduate.

Personal Graduation Plans (PGP)

8th Grade Career Exploration Graduation Plan Process

Students will choose their Endorsements after researching personal interests, careers, Endorsement options and long-term career goals in the fall semester during English/ELAR classes. Guidance counselors will help guide students during the spring semester in ensuring that students have the correct Endorsement based on their career interests and help them plan their four-year graduation plan.

Each student must have a four-year Personal Graduation/Career Plan created during the spring of 8th grade with the help of his/her guidance counselor. Parent participation is VITAL. Parents should meet with their child's guidance counselor to discuss the plan and are required to approve the plan and their child's Endorsement selection in writing. Each year the PGP will be reviewed with the student.

Skyward

Students' four-year Endorsement Choices and Personal Career Plans are accessible to students, parents, and guidance counselors. To access Skyward, go to www.ssisd.net and select the Skyward link. Log into your Skyward student or parent access portal to view the Endorsement and Program of Study as well as their Career Plan.



Student Access

SKYWARD

Home

- Calendar
- Gradebook
- Attendance
- Student Info
- Schedule
- Test Scores
- Graduation Requirements
- Career Plans**
- Endorsements**
- Report Cards & Documents
- Login History

Report Cards are Posted

The 1st term report card has "Report Cards & Document"

KALEY WILLIAMS (BIOLO)

Last Update of 1st Nine W

Good Morning!

I can't believe how quickly t getting to know your studen several labs this nine week: lot, and we have laughed a

Please be checking skywar questions! I am offering an Wednesday. This assignme with a 100 if completed. We

Course Levels

- 1) STANDARD** – This level is NOT weighted. Courses that are considered Standard courses are:
 - PSP - Post-Secondary Prep
- 2) HONORS** – This level is weighted at 0.5 above the Standard weight. Courses that are considered Honors courses are:
 - CP - College Prep
 - DC – Dual Credit
 - Concurrent Credit
- 3) ADVANCED PLACEMENT (AP)** – This level is weighted at 1.0 above the Standard weight. Courses that are considered AP will be labeled as such:
 - AP – Advanced Placement

Distinguished Level of Achievement & Performance Acknowledgements

Students may earn a **Distinguished Level of Achievement** by successfully completing the following:

- a total of four credits in mathematics, **which must include Algebra II**
 - a total of four credits in science
 - the remaining curriculum for the Foundation High School Plan
 - the curriculum requirements for at least one Endorsement
- *A student must earn a Distinguished Level of Achievement to be eligible for top 10% automatic admission.**

A student may earn a **Performance Acknowledgement** on the student's diploma and transcript for outstanding performance in the following areas:

- Earning dual credit
 - Exhibiting bilingualism and bi-literacy
 - Performing well on the SAT or ACT
 - Earning a nationally or internationally recognized certification or licensure.
-

The details for earning **Performance Acknowledgements** in each area are outlined below:

- In a **dual credit course** by successfully completing:
 1. At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum and advanced technical credit courses with a grade of the equivalent of 3.0 or higher on a scale of 4.0 **OR**
 2. Earning an Associate's Degree while in high school.
- In **bilingualism and biliteracy** by demonstrating proficiency in accordance with local school district grading policy in two or more languages by:
 1. Completing all English language arts requirements and maintaining a minimum grade point average (GPA) of the equivalent of 80 on a scale of 100; **AND**
 2. Satisfying one of the following:
 - Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; **OR**
 - Demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; **OR**
 - Completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; **OR**
 - Demonstrated proficiency in one or more languages other than English through one of the following methods:
 - A score of 3 or higher on a College Board AP exam for a language other than English; **OR**
 - Performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent

In addition to meeting the requirements to earn a performance acknowledgement in bilingualism and biliteracy, an English Language Learner must also have:

- Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; **AND**
- Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)
- On a **College Board Advanced Placement (AP) test** by:
 1. Earning a score of 3 or above.
- On the **PSAT®**, the **ACT-PLAN**, the **SAT®**, or the **ACT®** by:
 1. Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT®) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
 2. Achieving the college readiness benchmark score on at least two of the four subject tests on the ACT-PLAN® examination
 3. Earning a combined critical reading and mathematics score of at least 1250 on the SAT®; or
 4. Earning a composite score on the ACT® examination of 28 (excluding the writing subscore)
- Earning a **nationally or internationally recognized business or industry certification or license in a Career & Technical Education Program of Study.**

Five Endorsement Areas

1. **Arts & Humanities:** Includes courses directly related to political science, world languages, cultural studies, English literature, history, and fine arts.
2. **Business & Industry:** Highly varied occupations in both service and manufacturing industries ranging from industrial and technical trades to business, marketing and finance.
3. **Public Service:** Service-oriented occupations for both private and public sector industries including health sciences, education and training, law enforcement, and human services.
4. **STEM:** Rigorous coursework and occupations centered on applied science, mathematics, and technology.
5. **Multidisciplinary:** Allows students to select courses from the curriculum of each endorsement area and earn credits in a variety of advance courses from multiple content areas sufficient to complete the distinguished level of achievement.

Articulated Course Credits

Articulated course credit allows high school students to receive college credit for technical courses they completed while in high school. The articulation process eliminates the need for duplication of courses at the college level. Articulated credit is absolutely FREE! Students can take up to 15 credit hours of articulated credit that saves in the form of time and college tuition and fees.

Articulation Agreement with Paris Junior College (PJC)

Sulphur Springs High School has articulation agreements with Paris Junior College (PJC) for several high school Career & Technical Education (CTE) courses. There are requirements in order for students to earn the articulated credits through PJC. Those requirements are:

1. Must meet all college admission requirements.
2. Must have graduated from high school on the Recommended Graduation Plan or Foundation High School Plan with an Endorsement.
3. Must select and have an approved college AAS or Certificate Degree Plan on file with PJC.
4. Must have completed the specified high school course(s) with a minimum grade of 80.
5. Must be currently enrolled in PJC and have completed twelve (12) semester hours of credit (which can include dual credit/concurrent credit coursework taken in high school).
6. Request for college credit to be granted for the articulated courses within fifteen (15) months from the date of high school graduation.

PJC Articulated Courses

| ARCHITECTURE HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|---------------------------------|--------------------|
| Architectural Design I | DFTG 1309 |
| Architectural Design II | DFTG 1305 |

| BUSINESS, MARKETING & FINANCE HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|--|--------------------|
| Accounting I | ACNT 1311 |
| Accounting II | ACNT 1303 |
| Business Information Management I AND II | ITSC 1309 |
| Principles of BMF & Business Law | BUSG 1301 |
| Entrepreneurship | BUSG 2309 |

| HEALTHCE HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|-----------------------------|--------------------|
| Anatomy & Physiology | MDCA 1309 |
| Medical Terminology | HITT 1305 |

| LAW HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|------------------------|--------------------|
| Law Enforcement I | CRIJ 1301 |

| ROBOTICS SCIENCE HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|-------------------------------------|--------------------|
| Robotics II | RBTC 1351 |

| ROBOTICS SCIENCE HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|-------------------------------------|--------------------|
| Robotics II | RBTC 1351 |

| WELDING HIGH SCHOOL COURSE | PJC COLLEGE COURSE |
|-----------------------------------|--------------------|
| Ag Equipment Design & Fabrication | WLDG 1313 |
| Ag Mechanics & Metal Technologies | WLDG 1307 |

Arts & Humanities Endorsements & Programs of Study

The Arts & Humanities Endorsement allows students to follow their interests in fine arts, foreign language or the general humanities.

Fine Arts Requirements: A coherent sequence of four credits by selecting courses from one or two categories or disciplines in fine arts.

Foreign Language Requirements: Four levels of the same language or two levels of each of the foreign languages offered.

Social Studies Requirements: Completion of five social studies credits.
Endorsement electives may serve as Foundation electives as well.



| Programs of Study | Course Sequence |
|---|---|
| Art (4 credits) <i>Career Requirements: Bachelor's Degree +</i> | 9th Grade: Art I (Fine Arts Credit) 10th Grade: Art II 11th Grade: Art III 12th Grade: Art IV |
| Dance (4 credits) <i>Career Requirements: Bachelor's Degree +</i> | 9th Grade: Dance I (Fine Arts Credit) 10th Grade: Dance II 11th Grade: Dance III 12th Grade: Dance IV |
| Foreign Language - French (4 credits) <i>Career Requirements: Bachelor's Degree +</i> | 9th Grade: French I CP (Foreign Language Credit) 10th Grade: French II CP (Foreign Language Credit) 11th Grade: French III CP 12th Grade: French IV CP |
| Foreign Language - Spanish (4 credits) <i>Career Requirements: Bachelor's Degree +</i> | 9th Grade: Spanish I CP (Foreign Language Credit) 10th Grade: Spanish II CP (Foreign Language Credit) 11th Grade: Spanish III CP 12th Grade: Spanish IV CP |

| Programs of Study | Course Sequence |
|--|--|
| <p>French & Spanish (4 credits) <i>Career Requirements: Bachelor's Degree +</i></p> | <p>9th Grade: Spanish I CP (Foreign Language Credit) 10th Grade: Spanish II CP (Foreign Language Credit) 11th Grade: French I CP 12th Grade: French II CP</p> |
| <p>Music Instrumental (4 credits) <i>Career Requirements: Bachelor's Degree +</i></p> | <p>9th Grade: Marching Band (1/2 PE Credit) AND Concert Band (1/2 Fine Arts Credit) OR Stage Band Jazz OR Strings 10th Grade: Marching Band (1/2 PE Credit) AND Concert Band (1/2 Fine Arts Credit) OR Stage Band Jazz OR Strings 11th Grade: Marching Band AND Concert Band OR Stage Band Jazz OR Strings 12th Grade: Marching Band AND Concert Band OR Stage Band Jazz OR Strings</p> |
| <p>Music Vocal (4 credits) <i>Career Requirements: Bachelor's Degree +</i></p> | <p>9th Grade: Music History OR Choir (Fine Art Credit) 10th Grade: Choir (Wildcat Singers, Wildcat Chorale, Bella Voce, Rhapsody) 11th Grade: Choir (Wildcat Singers, Wildcat Chorale, Bella Voce, Rhapsody) 12th Grade: Choir (Wildcat Singers, Wildcat Chorale, Bella Voce, Rhapsody)</p> |
| <p>Social Studies (5 credits – 4 already satisfy Foundation Plan) <i>Career Requirements: Bachelor's Degree +</i></p> | <p>9th Grade: World Geography 10th Grade: World History 11th Grade: US History 12th Grade: US Government/Economics AND 5th Endorsement Social Students Credit – <u>Choose two</u> (for 1 Credit Total):</p> <ul style="list-style-type: none"> ● Psychology PSP (1/2 Credit) ● Sociology (1/2 Credit) ● Old Testament Studies (1/2 Credit) ● New Testament Students (1/2 Credit) |
| <p>Theatre Arts (4 credits)</p> | <p>9th Grade: Theatre Arts I OR Technical Theatre I (Fine Art Credit) 10th Grade: Theatre Arts II OR Technical Theatre II 11th Grade: Theatre Arts III OR Technical Theatre III 12th Grade: Theatre Arts IV OR Technical Theatre IV</p> |

BUSINESS & INDUSTRY ENDORSEMENTS

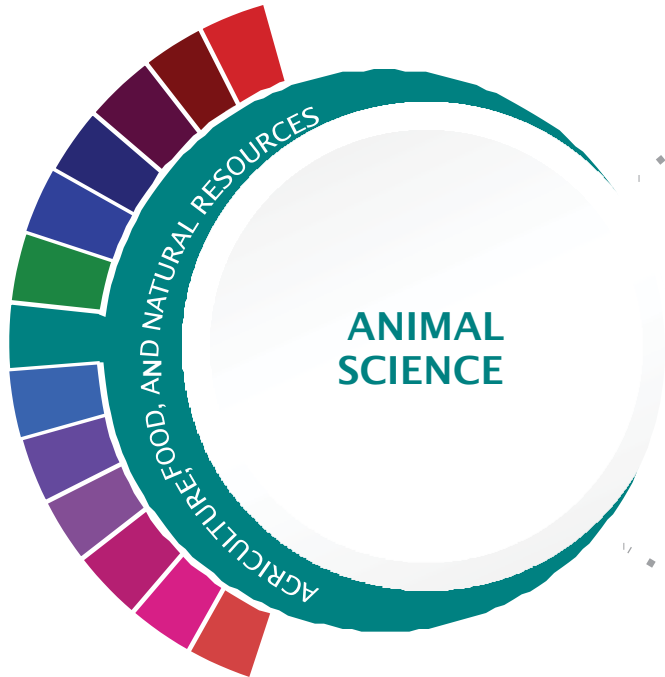


Local Implementation Considerations:

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

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

COURSES



LEVEL 1
0507 - Principles of Agriculture, Food, and Natural Resources (1 Credit)

LEVEL 2
2507 - Small Animal Management (0.5 Credit) AND 2508 - Equine Science (0.5 Credits)

2501 - Livestock Production (1 Credit - Advanced Level Course)

4501 - Veterinary Medical Applications/Lab (1 Credit)

LEVEL 3
4512 - Advanced Animal Science (1 Science Credit)

LEVEL 4
0525 - Practicum in Agriculture, Food, and Natural Resources (2 Credits)

POST SECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|------------------------------------|-----------------------|-------------------------------------|-------------------------|---------------------------------------|
| Certified Veterinary Assistant | Pet Groomer | Food Science and Technology | Animal Sciences | Genetics |
| | Veterinary Technician | Veterinary Studies | Agriculture | Veterinary Medicine |
| | 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% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities: Texas FFA

Work Based Learning Activities: Agri-Science Fair, 4H, Volunteer at a local farm or veterinary office

Additional industry based certification information is available from 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 students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.



The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

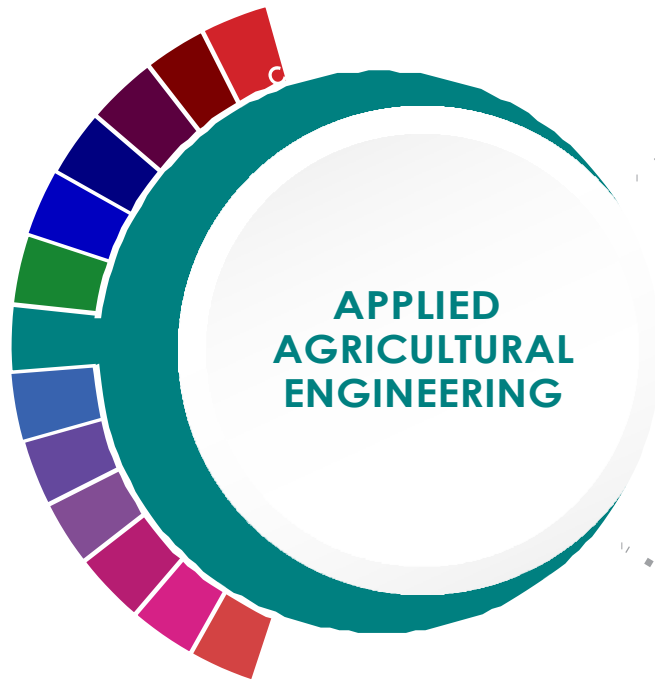
COURSE INFORMATION

| COURSE NAME | SERVICE ID | PRE REQS CO REQS | GRADE |
|--|---|---|-------|
| Principles of Agriculture, Food, and Natural Resources | 13000200 (1 credit) | None | 9-12 |
| Small Animal Management | 13000400 (0.5 credit) | None | 10-12 |
| Equine Science | 13000500 (0.5 credit) | None | 10-12 |
| Livestock Production | 13000310 (1 credit) | None | 10-12 |
| Advanced Animal Science | 13000700 (1 credit) | PREQ: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production; | 11-12 |
| Veterinary Medical Applications/ Lab | 13000600 (1 credit) 13000610 (2 credits) | PREQ: Equine Science, Small Animal Management, or Livestock Production | 11-12 |
| Practicum in Agriculture, Food, and Natural Resources | 13002500 (2 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER, PLEASE CONTACT:

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COURSES



LEVEL 1

0507 - Principles of Agriculture, Food, and Natural Resources (1 Credit)

LEVEL 2

1510 - Agricultural Mechanics and Metal Technologies (1 Credit AND Articulated PJC Credit - WLDG 1313)

LEVEL 3

1515 - Agricultural Structures Design and Fabrications/Lab (2 Credits)

LEVEL 4

1516 - Agricultural Equipment Design and Fabrication/Lab (2 Credits)
0525 - Practicum in Agriculture, Food, and Natural Resources (2 Credits)

POST SECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|------------------------------------|---------------------------------------|--|-------------------------------------|---------------------------------------|
| AWS SENSE Welding Level 1 | Certified Professional Agronomist | Heavy Equipment Maintenance Technology/ Technician | Agricultural Engineering | |
| AWS D1.1 or D9.1 Certification | Certified Reliability Engineer | Agricultural Mechanization, General | Agricultural Mechanization, General | |
| | Certified Irrigation Designer | Small Engine Mechanics and Repair Technology/ Technician | | |
| | Fluid Power Mobile Hydraulic Mechanic | Welding Technology/ Welder | | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|--|-------------|-----------------|----------|
| Outdoor Power Equipment and Other Small Engine Mechanics | \$32,406 | 366 | 16% |
| Welders | \$41,350 | 6,171 | 9% |
| Farm Equipment Mechanics and Service Technicians | \$39,915 | 304 | 17% |
| Mobile Heavy Equipment Mechanics | \$47,299 | 1,627 | 16% |
| Agricultural Engineers | \$64,792 | 9 | 13% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Tour a farm products or machinery plant
Texas FFA

Work Based Learning Activities:

Earn a welding certification; intern at a farm products or machinery plant

The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

Successful completion of this program of study will fulfill requirements of a Business and Industry Endorsement. Approved Statewide Program of Study - September 2019



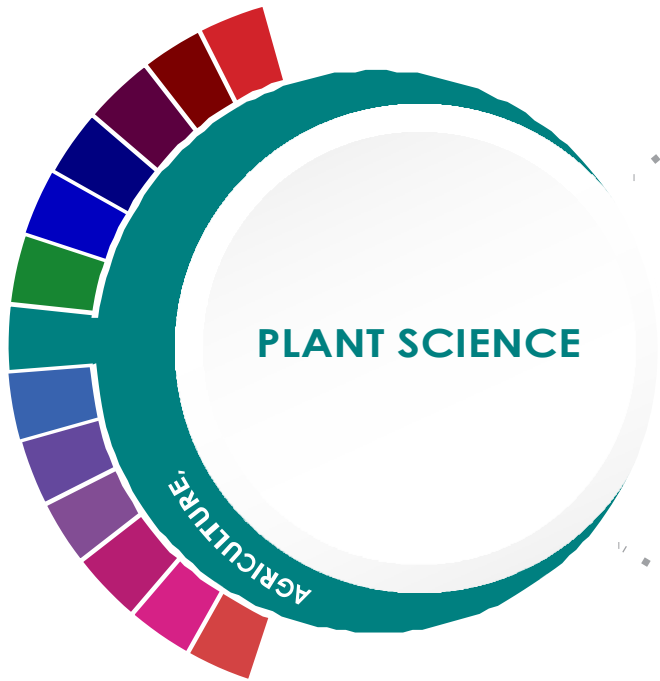
COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITIES (CREQ) | GRADE |
|--|----------------------|--|-------|
| Principles of Agriculture, Food, and Natural Resources | 13000200 (1 credit) | None | 9-12 |
| Agricultural Mechanics and Metal Technologies | 13002200 (1 credit) | None | 10-12 |
| Agricultural Structures Design and Fabrications/ Lab | 13002310 (2 credits) | PREQ: Agricultural Mechanics and Metal Technologies | 11-12 |
| Agricultural Equipment Design and Fabrication/ Lab | 13002360 (2 credits) | None | 11-12 |
| Practicum in Agriculture, Food, and Natural Resources | 13002500 (2 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

COURSES



LEVEL 1

0507 - Principles of Agriculture, Food, and Natural Resources (1 Credit)

LEVEL 2

1507 - Floral Design (1 Advanced Level Credit)

LEVEL 3

1525 - Advanced Floral Design (1 Credit)

LEVEL 4

0525 - Practicum in Agriculture, Food, and Natural Resources (2 Credits)

POST SECONDARY OPTIONS

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

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| 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% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Texas FFA

Work Based Learning Activities:
Work part-time at a florist;
start or work for a local landscaping business

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.

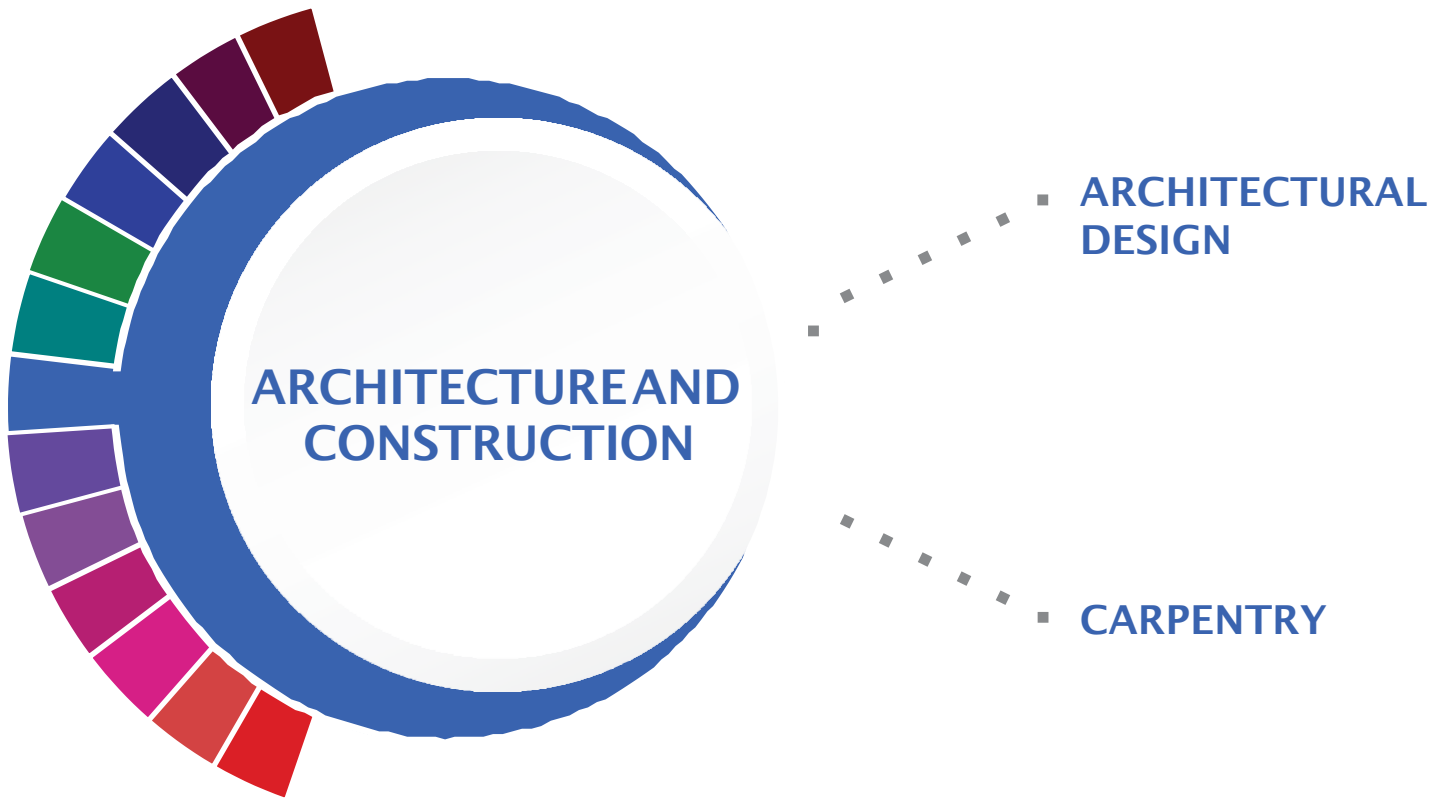
The Agriculture, Food, and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It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

COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--|----------------------|---|-------|
| Principles of Agriculture, Food, and Natural Resources | 13000200 (1 credit) | None | 9-12 |
| Floral Design | 13001800 (1 credit) | None | 9-12 |
| Advanced Floral Design | N1300270 (1 credit) | PREQ: Floral Design | 11-12 |
| Practicum in Agriculture, Food, and Natural Resources | 13002500 (2 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER, PLEASE CONTACT:
 Jenny Arledge | jarledge@ssisd.net

BUSINESS & INDUSTRY ENDORSEMENTS

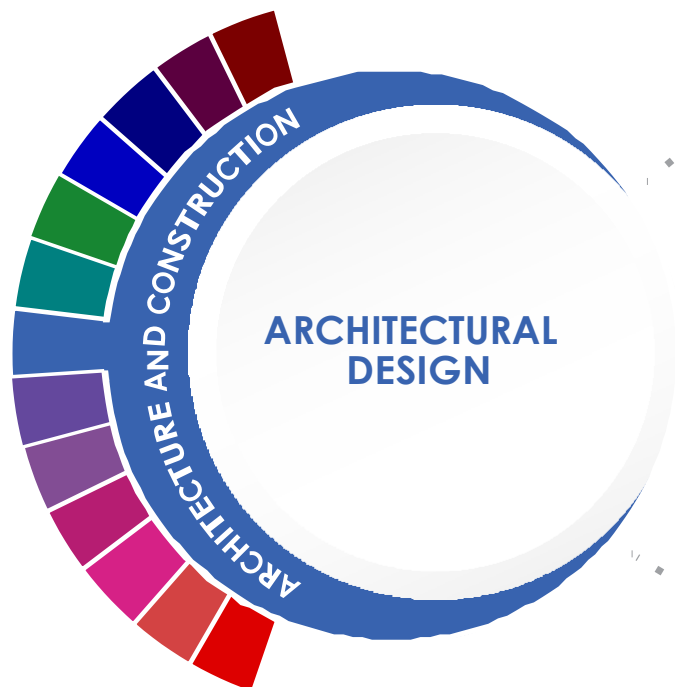


Implementation Considerations:

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

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

COURSES



LEVEL 1

1318 - Principles of Architecture (1 Credit)

LEVEL 2

1360 - Architectural Design I (1 Credit AND Articulated PJC Credit - DFTG 1309)

2515 - Interior Design I (1 Credit)

LEVEL 3

1361 - Architectural Design II (2 Credits AND Articulated PJC Credit - DFTG 1305)

2516 - Interior Design II (2 Credits)

LEVEL 4

2517 - Practicum in Architectural Design (2 Credits)

0305 - Career Preparation I (2 Credits - must have a job working a minimum of 10 hrs per week or 3 Credits if 15 hrs per week)

POSTSECONDARY OPTIONS

| 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 | | |
| Autodesk Certified Professional or User in Autodesk Revit Architecture | Certified Development, Design & Construction Professional | Interior Design | | Interior Architecture |
| | National Council Certified Interior Designer | Civil Engineering, General | | |
| | LEED AP Building Design & Construction | Geographic Information Science and Cartography | | |
| Additional industry based certification information is available from the TEA CTE website. | | | | |
| For more information on postsecondary options for this program of study, visit TXCTE.org . | | | | |

| 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% |
| Civil Engineers | \$89,960 | 2,394 | 12% |
| Construction Managers | \$87,402 | 2,401 | 14% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow an architect, interior designer, or civil engineer.
SkillsUSA

Work Based Learning Activities:
Intern at an architecture firm.

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.

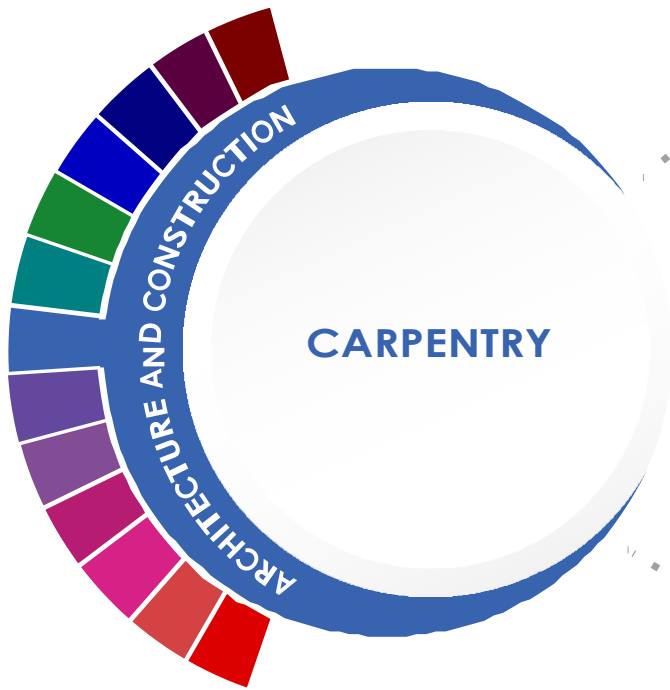
The Architecture and Construction Career Cluster® focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--------------------------------------|--|---|-------|
| Principles of Architecture | 13004210 (1 credit) | None | 9-12 |
| Architectural Design I | 13004600 (1 credit) | PREQ: Algebra I and English I | 10-12 |
| Interior Design I | 13004300 (1 credit) | PREQ: Algebra I and English I | 10-12 |
| Architectural Design II | 13004700 (2 credits) | PREQ: Architectural Design I or Advanced Interior Design and Geometry | 11-12 |
| Interior Design II | 13004400 (2 credits) | PREQ: English II, Geometry, and Interior Design I | 11-12 |
| Practicum in Architectural Design | 13004800 (2 credits) | PREQ: Architectural Design II | 12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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**FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION
CAREER CLUSTER, PLEASE CONTACT:**

Jenny Arledge | jarledge@ssisd.net

COURSES



LEVEL 1

1317 - Principles of Construction

LEVEL 2

1363 - Construction Technology I (2 Credits)

LEVEL 3

1364 - Construction Technology II (2 Credits)

LEVEL 4

1365 - Practicum in Construction Technology (2 Credits)

0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|------------------------------------|-------------------------------------|---|----------------------|---------------------------------------|
| NCCER Core Curriculum | Certified Lead Carpenter | Carpentry/ Carpenter | Construction Science | Construction Management |
| NCCER Construction Technology | Certified Installer | Industrial Mechanics and Maintenance Technology | | |
| | Certified Door Consultant | | | |
| | Fluid Power Connector and Conductor | | | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|-----------------|-------------|-----------------|----------|
| Carpenters | \$35,922 | 5,031 | 26% |
| Cost Estimators | \$63,939 | 2,239 | 21% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Shadow a carpenter or millwright.
SkillUSA

Work Based Learning Activities:

Obtain an NCCER certification in Millwright Level 1 or Carpentry Level 1.

The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

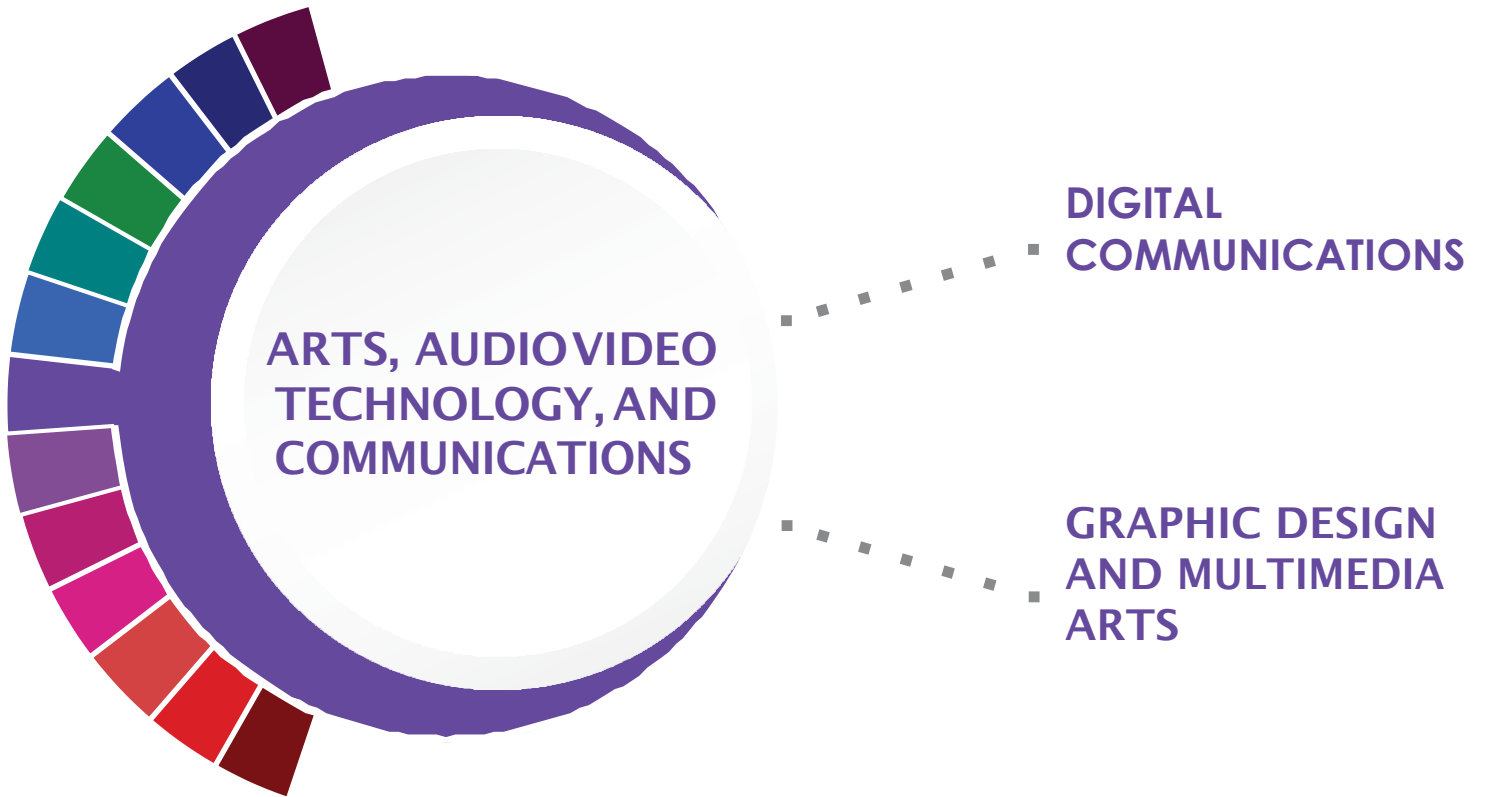
The Architecture and Construction Career Cluster® focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--------------------------------------|--|---|-------|
| Principles of Construction | 13004220 (1 credit) | None | 9-12 |
| Principles of Architecture | 13004210 (1 credit) | None | 9-12 |
| Construction Technology I | 13005100 (2 credits) | None | 10-12 |
| Construction Technology II | 13005200 (2 credits) | PREQ: Construction Technology I | 11-12 |
| Practicum in Construction Technology | 13005250 (2 credits) | PREQ: Construction Technology II | 12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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**FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION
CAREER CLUSTER, PLEASE CONTACT:**

Jenny Arledge | jarledge@ssisd.net

BUSINESS & INDUSTRY ENDORSEMENTS

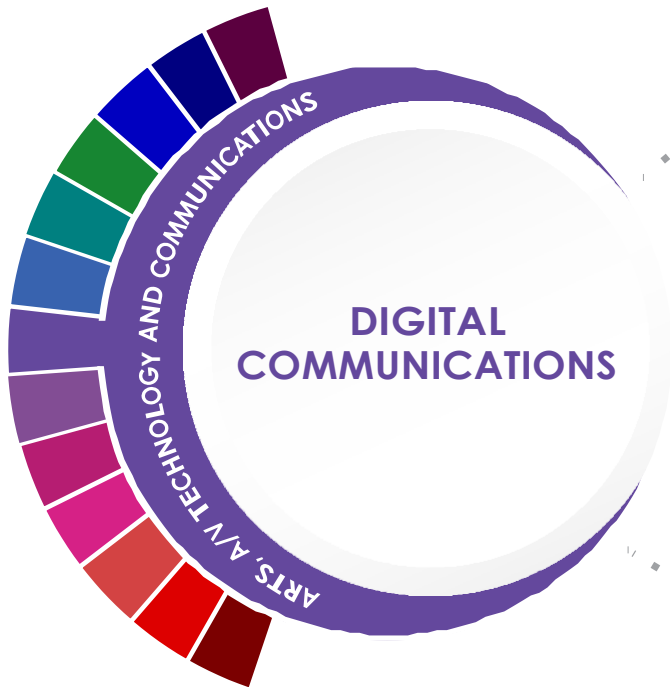


Local Implementation Considerations:

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

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

COURSES



LEVEL 1

1319 - Principles of Arts, A/V Technology, and Communications (1 Credit)

Digital Communications in the 21st Century (8th 8001 - 1 Credit)

LEVEL 2

1001 - Audio/Video Production (1 Credit)

LEVEL 3

2001L - Audio Video Production III/Lab (2 Credits)

LEVEL 4

3001 - Practicum of Audio/Video Production (2 Credits)

POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|--|-------------------------------------|---|---------------------------------------|---------------------------------------|
| Adobe Certified Associate Premiere Pro | Certified Video Engineer | Recording Arts Technology/Technician | | Communications Technology/Technician |
| Adobe Certified Associate Certifications | Commercial Audio Technician | Cinematography and Film/Video Production | | |
| | Certified AM Directional Specialist | Radio and Television Broadcasting Technology/Technician | Radio and Television | |
| | Certified Broadcast Radio Engineer | Music Technology | Agricultural Communication/Journalism | |
| Additional industry based certification information is available from the TEA CTE website. | | | | |
| For more information on postsecondary options for this program of study, visit TXCTE.org. | | | | |

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|---|-------------|-----------------|----------|
| Sound Engineering Technicians Camera Operators, Television, Video and Motion Picture | \$39,562 | 79 | 27% |
| Audio and Video Equipment Technicians Film and Video Editors | \$50,024 | 129 | 9% |
| | \$40,581 | 757 | 29% |
| | \$47,382 | 118 | 23% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Shadow a production team
SkillsUSA

Work Based Learning Activities:

Intern at a local television station or video production company

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 a Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019



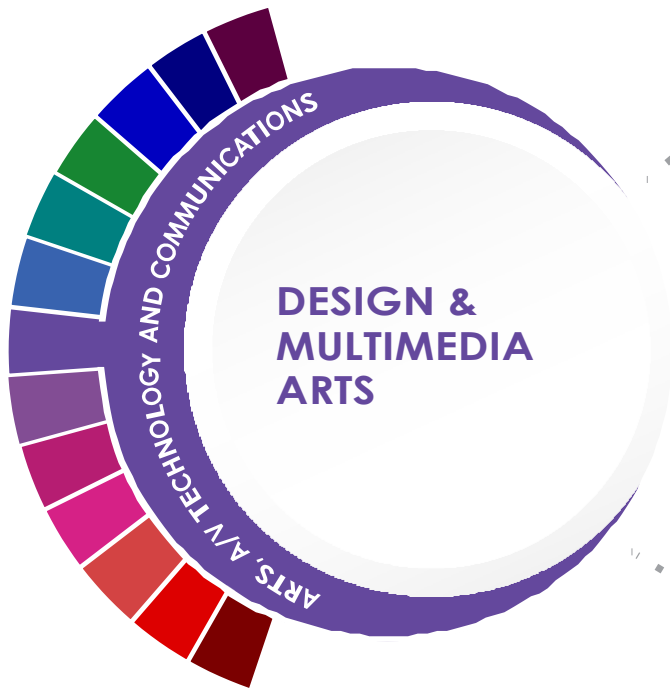
COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--|----------------------|---|-------|
| Principles of Arts,A/V Technology, and Communications | 13008200 (1 credit) | None | 9 |
| Digital Communications in the 21st Century (8th Grade) | 03580610 (1 credit) | None | 9-12 |
| Audio/Video Production I | 13008500 (1 credit) | None | 9-12 |
| Audio Video Production II/Lab | 13008610 (2 credits) | PREQ: Audio/Video Production I | 10-12 |
| Practicum of Audio/Video Production | 13008700 (2 credits) | PREQ: Audio/Video Production II | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE ARTS, AUDIO/VISUAL TECHNOLOGY, AND COMMUNICATIONS CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

COURSES



LEVEL 1

1319 - Principles of Arts, A/V Technology, and Communications (1 Credit)

0223 - Digital Media (1 Credit)

LEVEL 2

2320 - Graphic Design and Illustration (1 Credit)

LEVEL 3

2410L - Graphic Design and Illustration II/Lab (2 Credits)

LEVEL 4

2415 - Practicum in Graphic Design and Illustration (2 Credits)

0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| 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 | | |
| | WOW Certified Web Designer Apprentice | Graphic Design | | |
| | Adobe Suite Certifications | Game and Interactive Media Design | Intermedia/Multimedia | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|----------------------------------|-------------|-----------------|----------|
| Graphic Designers | \$44,824 | 1,433 | 15% |
| Multimedia Artists and Animators | \$67,392 | 186 | 21% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Join a website development or coding SkillsUSA

Work Based Learning Activities:
Intern with a multimedia or animation studio.
Obtain a certificate in graphic design.

The Graphic 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.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--|--|--|-------|
| Principles of Arts, A/V Technology, and Communications | 13008200 (1 credit) | None | 9 |
| Digital Media | 13027800 (1 credit) | None | 9-12 |
| Graphic Design and Illustration I | 13008800 (1 credit) | None | 10-12 |
| Graphic Design and Illustration II / Lab | 13009310 (2 credits) | PREQ: Graphic Design and Illustration I | 10-12 |
| Practicum in Graphic Design and Illustration | 13009000 (2 credits) | PREQ: Graphic Design and Illustration II Lab | 11-12 |
| Career Prep I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE ARTS, AUDIO/VISUAL TECHNOLOGY, AND COMMUNICATIONS CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

BUSINESS & INDUSTRY ENDORSEMENTS



Local Implementation Considerations:

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

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

COURSES



1308 - Principles of Business, Marketing, and Finance (1 Credit)

Money Matters (1 Credit)

0302 - Accounting I (1 Credit AND Articulated PJC Credit - ACNT 1311)

4307 - Business Information Management (1 Technology Credit)

1302 - Accounting II (1 Math Credit AND Articulated PJC Credit - ACNT 1303)

3307 - Practicum in Business Management (2 Credits)

0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|---|---------------------------------|---------------------------------|-------------------|---------------------------------------|
| QuickBooks Certified User | Certified Management Accountant | Real Estate | Accounting | Financial Accounting |
| Microsoft Office Specialist or Expert - Excel | Certified Internal Auditor | Financial, General | | Business Administration |
| | Certified Income Specialist | Financial Planning and Services | | Financial Planning |
| | Certified Public Accountant | Certified Income Specialist | | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|---------------------------------|-------------|-----------------|----------|
| Accountants and Auditors | \$71,469 | 14,436 | 22% |
| Loan Officers | \$68,598 | 2,419 | 19% |
| Personal Financial Advisors | \$86,965 | 1,861 | 52 |
| Administrative Service Managers | \$96,138 | 2,277 | 21% |
| Insurance Underwriters | \$66,206 | 594 | 14% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA

Work Based Learning Activities:
Internship with local accounting firm; Microsoft Office Specialist (MOS) certifications

The Accounting and Financial Services program of study teaches CTE concentrators how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others. This program of study will also introduce students to mathematical modeling tools.



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

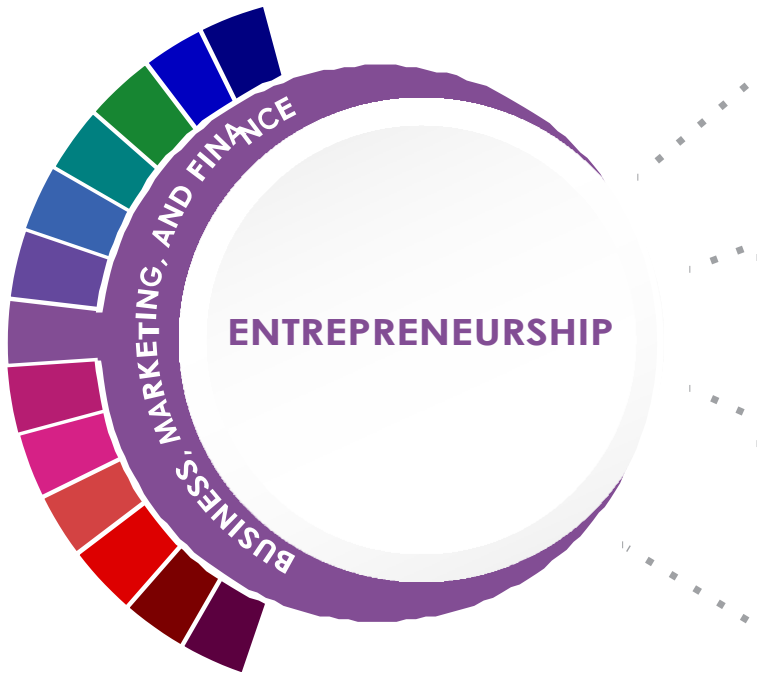
| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--|--|---|-------|
| Principles of Business, Marketing, and Finance | 13011200 (1 credit) | None | 9-11 |
| Business Information Management I | 13011400 (1 credit) | None | 9-12 |
| Business Information Management II | 13011500 (1 credit) | PREQ: Business Information Management I | 10-12 |
| Practicum in Business Management | 13012200 (2 credits) | None | 11-12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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**FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING,
AND FINANCE CAREER CLUSTER, PLEASE CONTACT:**

Dale Fowler | Dale.Fowler@tea.texas.gov

<https://tea.texas.gov/cte>

COURSES



LEVEL 1

1308 - Principles of Business, Marketing, and Finance (1 Credit)

LEVEL 2

3305 - Entrepreneurship (1 Credit)

4307 - Business Information Management I (1 Technology Credit)

LEVEL 3

3306 - Entrepreneurship II (TBD)

LEVEL 4

3307 - Practicum in Business Management (2 Credits)

0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| 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 | | |
| Microsoft Office Expert - Word | Certified Management Accountant | Business/ Commerce | | |
| Entrepreneurship and Small Business | Certified Project Consultant | Public Administration | | |
| | Accredited Management Consultant | Business Management | Management Science | |
| Additional industry based certification information is available from the TEA CTE website. | | | | |
| For more information on postsecondary options for this program of study, visit TXCTE.org. | | | | |

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|----------------------|-----------------------------|-----------------|----------|
| General and Managers | \$107,640 20% Operations | 18,679 | |
| Management | \$87,651 32% Analysts | 4,706 | |
| Managers, All | \$113,110 26% Others | 1,794 | |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Business Professionals of America (BPA), Future Business Leaders of America (FBLA), and DECA

Work Based Learning Activities:

Internship with local management consulting firm

The Entrepreneurship program of study teaches CTE concentrators how to plan, direct, and coordinate the management and operations of public or private sector organizations. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, analyze management structures, and plan for the use of materials and human resources.



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

COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--|--|---|-------|
| Principles of Business, Marketing, and Finance | 13011200 (1 credit) | None | 9-11 |
| Business Information Management I | 13011400 (1 credit) | None | 9-12 |
| Entrepreneurship | 13034400 (1 credit) | None | 10-12 |
| Entrepreneurship II (TBD) | TBD | TBD | 11-12 |
| Practicum in Business Management | 13012200 (2 credits) | None | 11-12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE BUSINESS, MARKETING,
AND FINANCE CAREER CLUSTER, PLEASE CONTACT:



Local Implementation Considerations:

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

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

COURSES



LEVEL 1

1316 - Principles of Education & Training
Principles of Human Services - 1 Credit)

LEVEL 2

5316 - Child Development (1 Credit)

LEVEL 3

1321 - Instructional Practices (2 Credits)

LEVEL 4

4321 - Practicum in Education and Training (2 Credits)

0305 - Career Preparation I (2 Credits)

POST SECONDARY OPTIONS

| 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) | | Educational Leadership and Administration, General |
| | Counselor, Professional | Special Education | | |
| | Athletic Trainer | Health and Physical Education/Fitness | Social and Philosophical Foundations of Education | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| 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% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Texas Association of Future Educators, or Family, Career and Community Leaders of America

Work Based Learning Activities:
Teach a community education class; intern as a teaching assistant or tutor; serve as a camp counselor.

The Teaching and Training program of study prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE concentrators to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.



The Education and Training Career Cluster® focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.

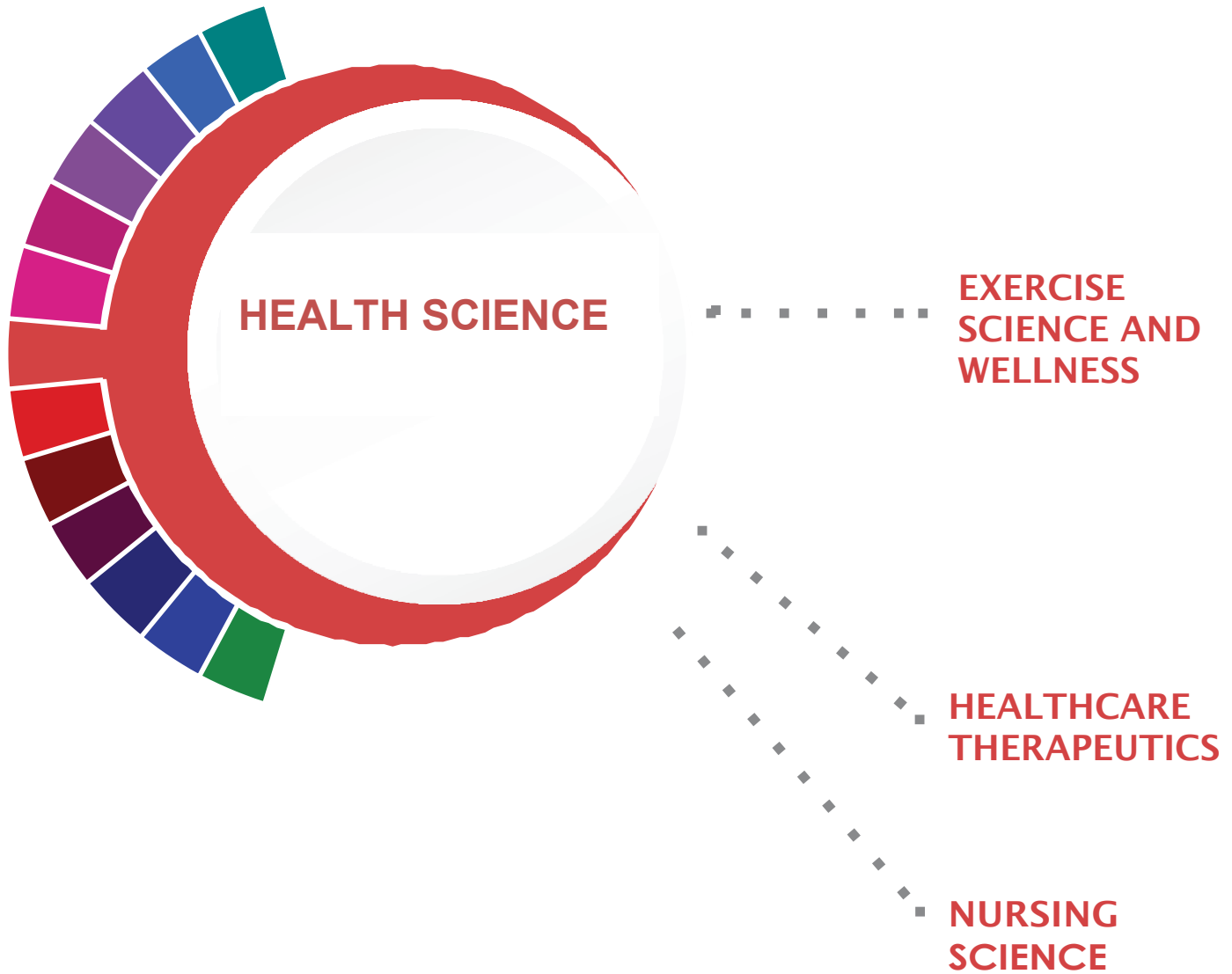
COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|--------------------------------------|--|---|-------|
| Principles of Education and Training | 13014200 (1 credit) | None | 9-10 |
| Principles of Human Services | 13024200 (1 credit) | None | 9-12 |
| Child Development | 13024700 (1 credit) | None | 10-12 |
| Instructional Practices | 13014400 (2 credits) | None | 11-12 |
| Practicum in Education and Training | 13014500 (2 credits) | PREQ: Instructional Practices | 12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE EDUCATION AND TRAINING CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

PUBLIC SERVICE ENDORSEMENTS



Local Implementation Considerations:

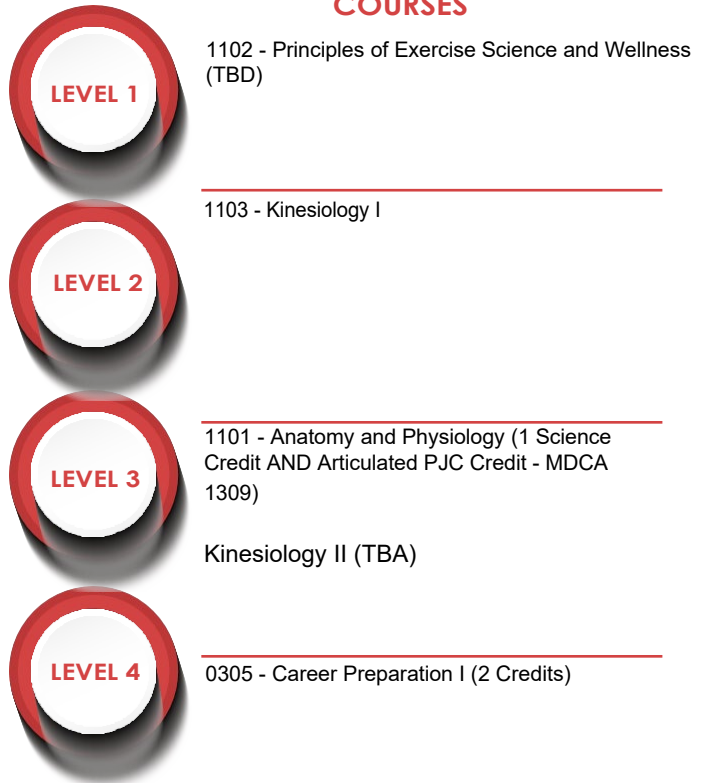
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COURSES



POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|--|------------------------------|--|------------------------------|---------------------------------------|
| Certified Personal Trainer | Physical Therapist Assistant | Kinesiology and Exercise Science | | Exercise Physiology |
| | Physical Therapy Aides | Therapeutic Recreation/ Recreational Therapy | | |
| | Dietetic Technician | Athletic Training/ Trainer | | |
| | | | Dietitians and Nutritionists | Physical Therapist |
| Additional industry based certification information is available from the TEA CTE website. | | | | |
| For more information on postsecondary options for this program of study, visit TXCTE.org. | | | | |

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS |
|-------------------------------------|-------------|-----------------|
| Athletic Trainers | \$53,450 | 215 22% |
| Exercise Physiologists | \$41,662 | 33 33% |
| Coaches and Scouts | \$40,010 | 2,133 23% |
| Medical and Health Service Managers | \$57,762 | 428 24% |
| Recreational Therapists | \$45,906 | 74 24% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Health Occupation Students of America (HOSA)

Career Prep Activities:
Volunteer at a hospital or rehabilitation center; manage a school sports team

The Exercise Science and Wellness program of study introduces students to the fields that assist patients with maintaining physical, mental, and emotional health. Students will research diet and exercise needed to maintain a healthy, balanced lifestyle and learn about and practice techniques to help patients recover from injury, illness, or disease.



The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITIES (CREQ) | GRADE |
|-------------------------------------|--|--|-------|
| Principles of Exercise and Wellness | TBD | TBD | TBD |
| Kinesiology I | TBD | TBD | TBD |
| Anatomy and Physiology | 13020600 (1 credit) | PREQ: Biology and a second science credit; RPREQ: a course from the Health Science cluster | 10-12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net



COURSES



1401 - Principles of Health Science (1 Credit)

4402 - Medical Terminology (1 Credit AND Articulated PJC Credit - HITT 1305)

1101 - Anatomy and Physiology (1 Science Credit AND Articulated PJC Credit - MDCA 1309)

1402 - Health Science Theory (1 Credit)

Medical Assistant (TBD)

2402 - Practicum in Health Science (2 Credits)

POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE | OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|--------------------------------------|-----------------------|----------------------------|-------------------|---------------------------------------|-------------------------|-------------|-----------------|----------|
| Certified Clinical Medical Assistant | Dental Assistant | Dental Hygienist | | Dentist | Medical Assistants | \$29,598 | 8,862 | 30% |
| Pharmacy Technician | Surgical Technologist | | | Physician Assistant | Surgical Technologists | \$46,310 | 1,150 | 21% |
| | Medical Assistant | Medical/Clinical Assistant | | Family and General Practitioners | Dental Hygienists | \$73,507 | 1,353 | 38% |
| | Pharmacy Aides | | | Pharmacist | Physicians and Surgeons | \$213,071 | 1,151 | 30% |
| | | | | | Dental Assistants | \$34,840 | 4,422 | 31% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
 SkillsUSA
 Health Occupation Students of America (HOSA)

Work Based Learning Activities:
 Volunteer at a community wellness center, hospital, assisted living, or nursing home.

Additional industry based certification information is available from 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.

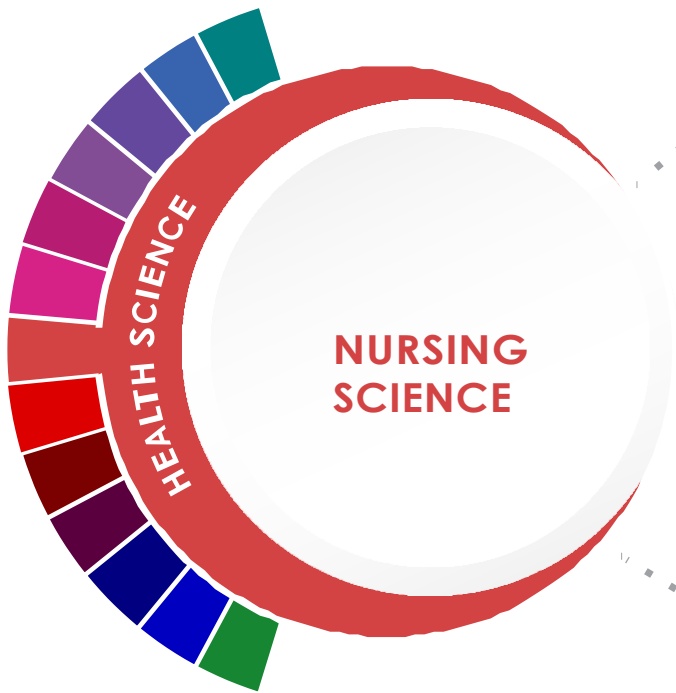


The Health Science Career Cluster® focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|------------------------------|----------------------|---|-------|
| Principles of Health Science | 13020200 (1 credit) | None | 9-10 |
| Medical Terminology | 13020300 (1 credit) | None | 9-12 |
| Anatomy and Physiology | 13020600 (1 credit) | PREQ: Biology and a second science credit | 10-12 |
| Health Science Theory | 13020400 (1 credit) | PREQ: Biology | 10-12 |
| Medical Assistant (TBD) | TBD | TBD | 11-12 |
| Practicum in Health Science | 13020500 (2 credits) | PREQ: Health Science Theory and Biology | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net



COURSES

1401 - Principles of Health Science (1 Credit)

LEVEL 1

4402 - Medical Terminology (1 Credit AND Articulated PJC Credit - HITT 1305)

LEVEL 2

1101 - Anatomy and Physiology (1 Science Credit AND Articulated PJC Credit - MDCA 1309)

LEVEL 3

Recommended: 1402 - Health Science Theory (1 Credit)

LEVEL 4

2403 - Practicum in Nursing (2 Credits)

POSTSECONDARY OPTIONS

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

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| 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% |
| Informatics Nurse Specialists | \$88,270 | 4,610 | 15% |
| Nurse Anesthetists | \$154,856 | 357 | 23% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Health Occupation Students of America (HOSA)

Work Based Learning Activities:

Volunteer at a community wellness center, hospital, assisted living center, or nursing home.

The Nursing Program of Study introduces students to knowledge and skills related to patient care. CTE concentrators 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.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|------------------------------|---------------------|---|-------|
| Principles of Health Science | 13020200 (1 credit) | None | 9-10 |
| Medical Terminology | 13020300 (1 credit) | None | 9-12 |
| Anatomy and Physiology | 13020600 (1 credit) | PREQ: Biology and a second science credit | 10-12 |
| Practicum in Nursing | TBD | TBD | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

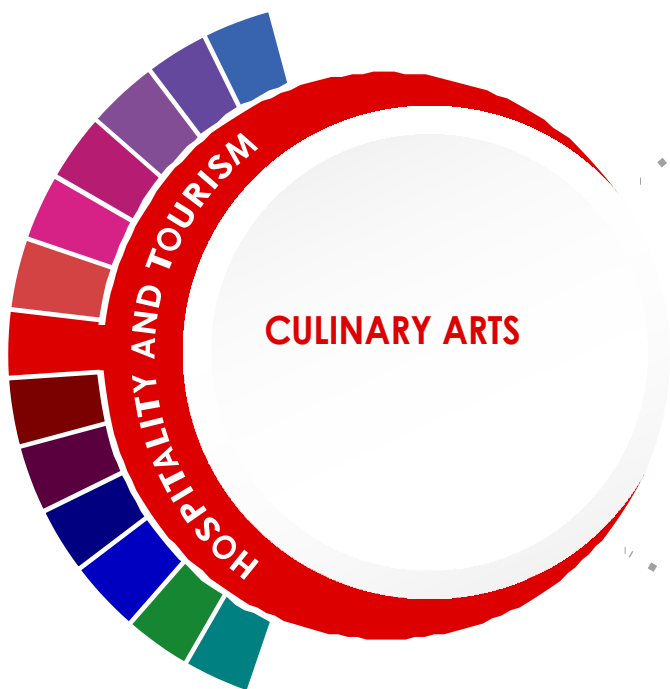
BUSINESS & INDUSTRY ENDORSEMENTS



Local Implementation Considerations:

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

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



COURSES



0802 - Introduction to Culinary Arts (1 Credit)

0801 - Culinary Arts (2 Credits)

1801 - Advanced Culinary Arts (2 Credits)

0805 - Practicum in Culinary Arts (2 Credits)
0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|------------------------------------|---------------------------------------|--|--|---|
| ServSafe Manager | Certified Chef | Hotel and Restaurant Management | | |
| | Foodservice Management Professional | Restaurant Culinary and Catering Management | Food Service Systems Administration/Management | |
| | Comprehensive Food Safety | Hospitality Administration/Management, General | | |
| | 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 Service Managers | \$55,619 | 1,561 | 28% |
| Chef and Head Cooks | \$43,285 | 1,366 | 25% |
| Food Science Technicians | \$34,382 | 236 | 11% |
| Food and Beverage Managers | \$55,619 | 1,561 | 28% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities: Family, Career, Community Leaders of America (FCCLA), SkillsUSA, American Culinary Federation, Texas Restaurant Association

Work Based Learning Activities: 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 from 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 students to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.



The Hospitality and Tourism Career Cluster® focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|-------------------------------|--|---|-------|
| Introduction to Culinary Arts | 13022550 (1 credit) | None | 9-12 |
| Culinary Arts | 13022600 (2 credits) | None | 10-12 |
| Advanced Culinary Arts | 13022650 (2 credits) | PREQ: Culinary Arts | 10-12 |
| Practicum in Culinary Arts | 13022700 (2 credits) | PREQ: Culinary Arts | 11-12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE HOSPITALITY AND TOURISM
CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

PUBLIC SERVICE ENDORSEMENT



FAMILY AND
COMMUNITY
SERVICES

Local Implementation Considerations:

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

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



COURSES



- LEVEL 1**
0313 - Principles of Human Services (1 Credit)

- LEVEL 2**
5316 - Child Development (1 Credit)

- LEVEL 3**
5317 - Counseling and Mental Health (1 Credit)

- LEVEL 4**
4313 - Practicum in Human Services (2 Credits)
0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities: American Association of Family and Consumer Sciences, Family, Career and Community Leaders of America

Work Based Learning Activities: Volunteer at a community center; intern for a community non-profit organization

Additional industry based certification information is available from 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 concentrators 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.



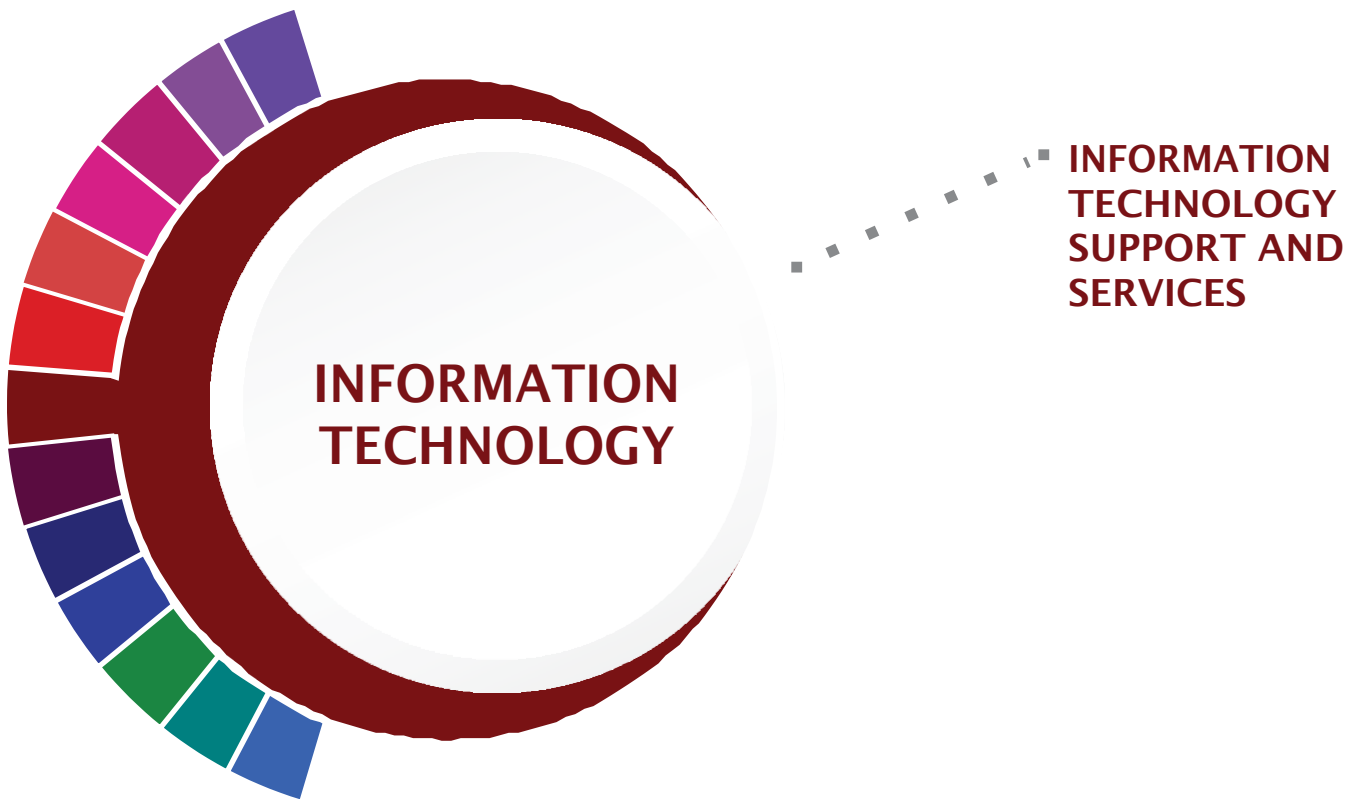
The Human Services Career Cluster® focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

| COURSE NAME | SERVICE ID | PREREQUISITE (PREQ) COREQUISITE (CREQ) | GRADE |
|---------------------------------|--|---|-------|
| Principles of Human Services | 13024200 (1 credit) | None | 9-12 |
| Child Development | 13024700 (1 credit) | None | 10-12 |
| Lifetime Nutrition and Wellness | 13024500 (.5 credit) | None | 10-12 |
| Counseling and Mental Health | 13024600 (1 credit) | None | 11-12 |
| Practicum in Human Services | 13025000 (2 credits) | None | 11-12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

BUSINESS & INDUSTRY ENDORSEMENTS



Local Implementation Considerations:

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

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

COURSES



0221 - Principles of Information Technology (1 Credit AND Articulated PJC Credit - ITSC 1301)



1325 - Computer Maintenance (1 Credit)



1326 - Computer Technician Practicum (2 Credits)



1327 - Computer Technician Practicum (2 Credits)

1340 - Practicum of Information Technology (2 Credits)

0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| 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 | | |
| CompTIA A+ | IBM Certified Database Associate-DB211 Fundamentals for z/OS | Computer and Information Systems Security/Information Assurance | Computer Systems Analysis/ Analyst | |
| | HP ASE - ProLiant Server Solutions Integrator V2 | Information Technology | Computer Engineering, General | |
| | Oracle Linux 6 Advanced System Administration | Computer Systems Networking and Telecommunications | Information Technology | |

Additional industry based certification information is available from the TEA CTE website

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|--|-------------|-----------------|----------|
| Database Administrator | \$83,075 | 1,063 | 19% |
| Information Technology - Computer Occupations, All Other | \$85,197 | 1,616 | 20% |
| Computer Hardware Engineer | \$111,738 | 343 | 24% |
| Computer System Analyst and Support | \$87,568 | 5,937 | 29% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Job shadow a database administrator or computer

Worked Based Learning Activities :

Obtain a Certification

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.

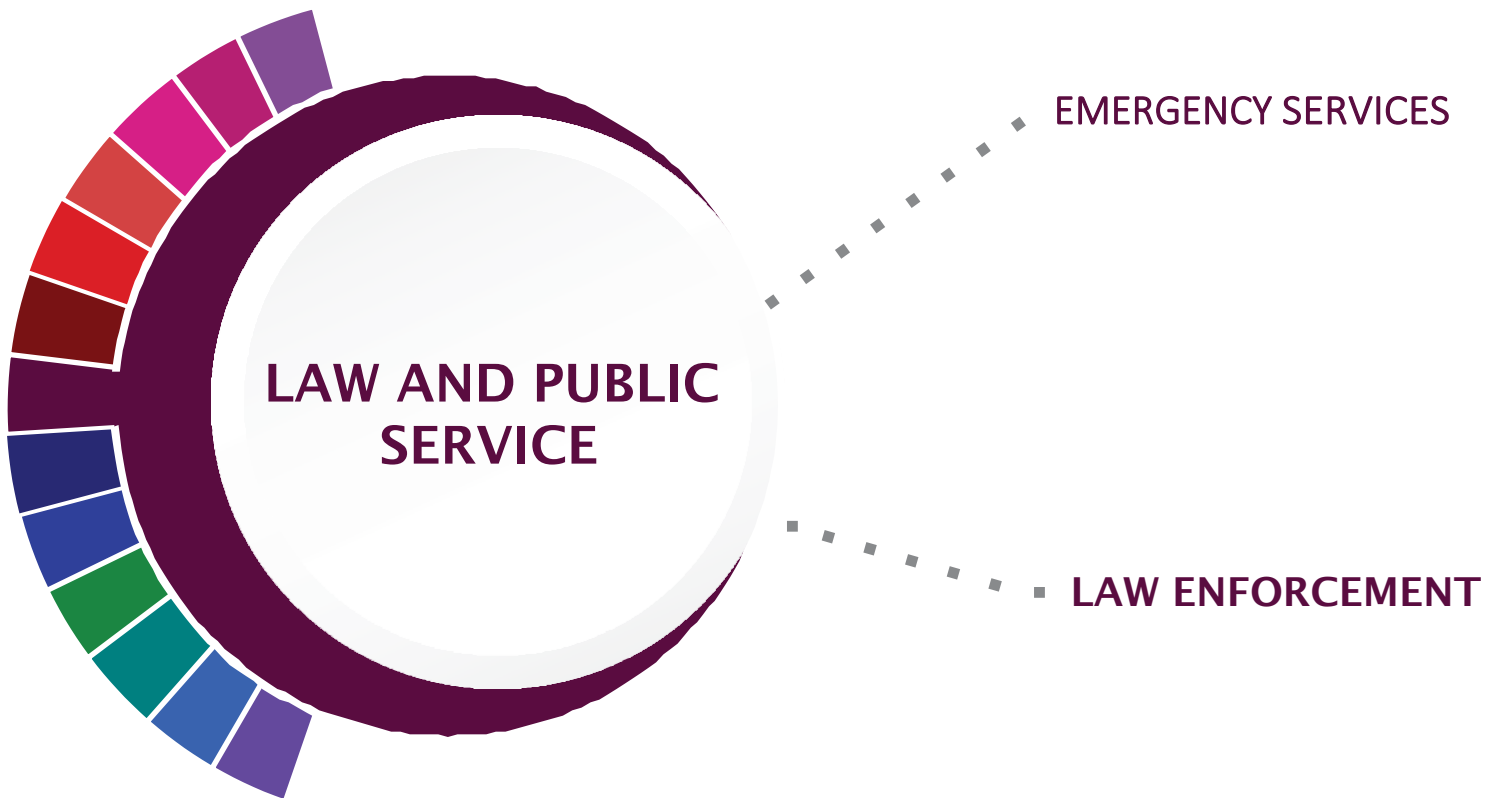
COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITE (PREQ) COREQUISITE (CREQ) | GRADE |
|--|--|--|-------|
| Principles of Information Technology | 13027200 (1 credit) | None | 9-10 |
| Computer Maintenance | 13027300 (1 credit) | None | 10-12 |
| Computer Technician Practicum | 13027500 (2 credits) | None | 10-12 |
| Computer Technician Practicum (2nd time) | 13027510 (2 credits) | PREQ: Computer Technician Practicum | 12 |
| Practicum in Information Technology | 13028000 (2 credits) | PREQ: A minimum of two high school information technology (IT) courses | 12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE THE INFORMATION TECHNOLOGY
CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net

PUBLIC SERVICE ENDORSEMENTS



Local Implementation Considerations:

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

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



COURSES

LEVEL 1

2331 - Principles of Law, Public Safety, Corrections, and Security (1 Credit)

LEVEL 2

5317 - Counseling and Mental Health (1 Advanced Level Credit)

LEVEL 3

3330 - Firefighter I (2 Credits)

1101 - Anatomy and Physiology (1 Science Credit AND Articulated PJC Credit - MDCA 1309)

LEVEL 4

3333 - Emergency Medical Technician - Basic (2 Credits)

4332 - Practicum in Law, Public Safety, Corrections, and Security (2 Credits)

POSTSECONDARY OPTIONS

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

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| 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% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Attend local emergency awareness events; Texas Public Service Association

Work Based Learning Activities:
Volunteer at a hospital or a fire station

The Emergency Services program of study focuses on training students to respond to emergency situations, namely medical emergencies and fire-based emergencies. Students may 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 protective agencies of fire and emergency services.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|---|----------------------|---|-------|
| Principles of Law, Public Safety, Corrections, and Security | 13029200 (1 credit) | None | 9-12 |
| Counseling and Mental Health | 13024600 (1 credit) | None | 9-12 |
| Firefighter I | 13029900 (2 credits) | None | 10-12 |
| Emergency Medical Technician - Basic | N1303015 (2 credits) | PREQ: Biology | 11-12 |
| Anatomy and Physiology | 13020600 (1 credit) | PREQ: Biology and a second science credit; | 10-12 |
| Practicum in Law, Public Safety, Corrections, and Security | 13030100 (2 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE LAW AND PUBLIC SERVICE CAREER CLUSTER, PLEASE CONTACT:
 Jenny Arledge | jarledge@ssisd.net

COURSES

2331 - Principles of Law, Public Safety, Corrections, and Security (1 Credit)

LEVEL 1

4330 - Law Enforcement I (1 Credit)

LEVEL 2

4335 - Law Enforcement II (1 Credit)

LEVEL 3

0331 - Forensic Science (1 Science Credit)

4332 - Counseling & Mental Health (1 Credit)

LEVEL 4

4332 - Practicum in Law, Public Safety Corrections, and Security (2 Credits)



POSTSECONDARY OPTIONS

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

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| 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% |
| First-Line Supervisors of Police and Detectives | \$91,312 | 253 | 25% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Texas Public Service Association;
criminal justice clubs

Work Based Learning Activities:

Attend court hearings and other legal procedures.

The Law Enforcement program of study teaches students about the development of, adherence to, and protection of various branches of law. Students may learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.



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

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|---|----------------------|---|-------|
| Principles of Law, Public Safety, Corrections, and Security | 13029200 (1 credit) | None | 9-12 |
| Law Enforcement I | 13029300 (1 credit) | None | 10-12 |
| Law Enforcement II | 13029400 (1 credit) | Law Enforcement I | 11-12 |
| Forensic Science | 13029500 (1 credit) | PREQ: Biology and Chemistry | 11-12 |
| Counseling and Mental Health | 13024600 (1 credit) | None | 11-12 |
| Practicum in Law, Public Safety, Corrections, and Security | 13030100 (2 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE LAW AND PUBLIC SERVICE CAREER CLUSTER, PLEASE CONTACT:

Jenny Arledge | jarledge@ssisd.net



ADVANCED MANUFACTURING AND MACHINERY MECHANICS (Robotics)

Local Implementation Considerations:

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

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

COURSES

1301 - Principles of Applied Engineering (1 Credit)

LEVEL 1

1350 - Robotics I (1 Credit)

LEVEL 2

2350 - Robotics II (1 Credit)

LEVEL 3

9115 - Practicum in Manufacturing (2 Credits)

0305 - Career Preparation I (2 Credits)

LEVEL 4

ADVANCED MANUFACTURING AND MACHINERY MECHANICS



POSTSECONDARY OPTIONS

| HIGH SCHOOL/ INDUSTRY CERTIFICATION | CERTIFICATE/ LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/ DOCTORAL PROFESSIONAL DEGREE |
|---|---|---|------------------------|---|
| FANUC Robot Operator 1 | Engineer, Professional | Electro-mechanical Engineering/Technology | Electrical Engineering | |
| Mastercam Associate Level Certification | PMMI Mechatronics: Programmable Logic Controllers 1 | Robotics Technology/Technician | Engineering, General | |
| | Certified Quality Technician | Instrumentation Technology/Technician | Industrial Engineering | |
| | Plant Maintenance Technologist | Industrial Mechanics and Maintenance Technology | Mechanical Engineering | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|--------------------------------|-------------|-----------------|----------|
| Electro-Mechanical Assemblers | \$30,160 | 951 | 9% |
| Electro-Mechanical Technicians | \$56,555 | 127 | 9% |
| Industrial Machinery Mechanics | \$49,816 | 3,788 | 27% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Participate in SkillsUSA and local STEM events

Work Based Learning Activities:
Apprenticeship at a local business or industry
American Welding Society

The Advanced Manufacturing and Machinery Mechanics program of study focuses on the assembly, operation, maintenance, and repair of electromechanical equipment or devices. Students may work in a variety of mechanical fields, gaining knowledge and experience in robotics, refinery and pipeline systems, deep ocean exploration, or hazardous waste removal. CTE concentrators may work in a variety of fields of engineering.

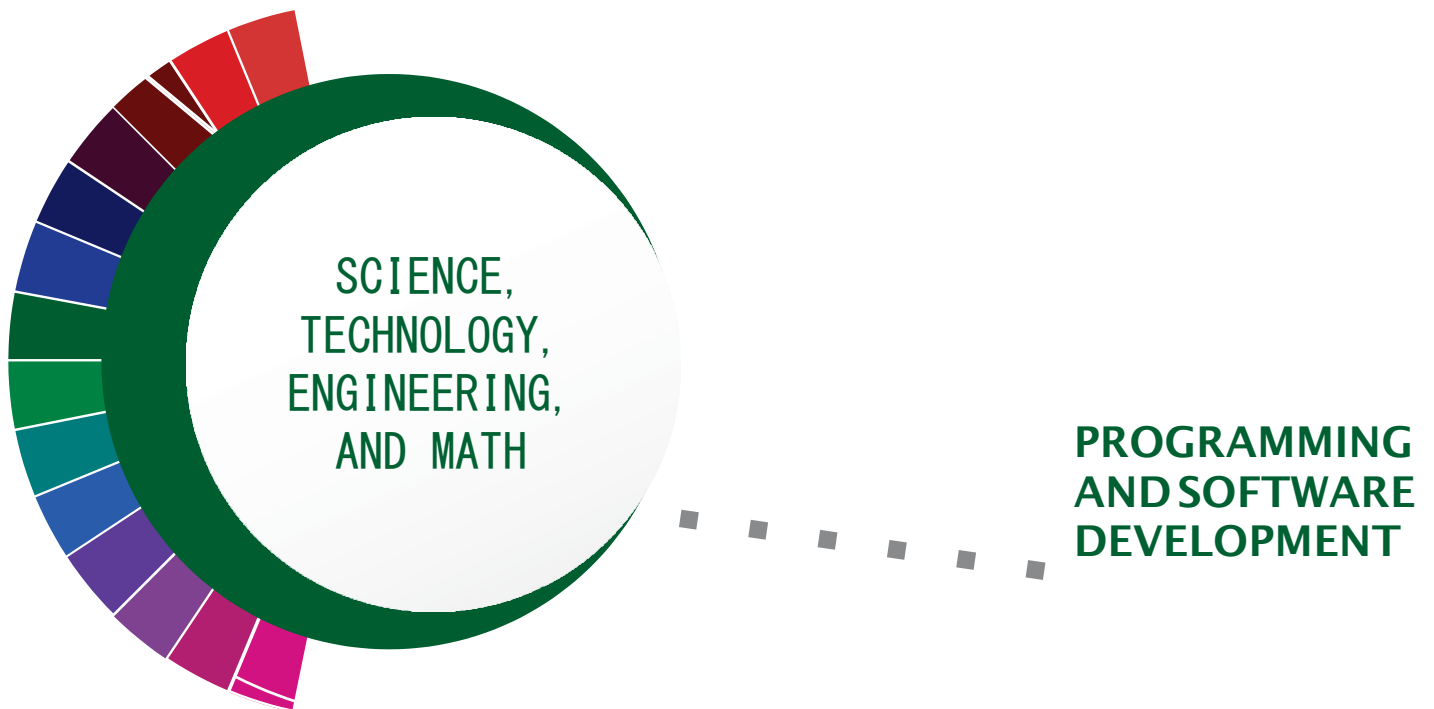


The Manufacturing Career Cluster® focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|-----------------------------------|--|---|-------|
| Principles of Applied Engineering | 13036200 (1 credit) | None | 9-10 |
| Robotics I | 13037000 (1 credit) | None | 9-10 |
| Robotics II | 13037050 (1 credit) | PREQ: Robotics I | 10-12 |
| Practicum in Manufacturing | 13033000 (2 credits) | None | 12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE MANUFACTURING CAREER CLUSTER, PLEASE CONTACT:
 Jenny Arledge | jarledge@ssisd.net

STEM ENDORSEMENTS



Local Implementation Considerations:

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

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



COURSES



0303 - Computer Programming I (1 Technology Credit)

2303 - AP Computer Science A (1 Advanced Level Credit)

1303 - Computer Programming II (1 Credit)

1340 - Practicum in Information Technology (2 Credits)

0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| HIGH SCHOOL/INDUSTRY CERTIFICATION | CERTIFICATE/LICENSE* | ASSOCIATE'S DEGREE | BACHELOR'S DEGREE | MASTER'S/DOCTORAL PROFESSIONAL DEGREE |
|-------------------------------------|--|---|---|---------------------------------------|
| MTA Intro to Programming Using Java | Certified Computing Professional | Computer Programming/Programmer General | Management Information Systems, General | |
| | Cloud Technology Associate Certification | Computer Software Engineer | | |
| | AEM 6 Developer | Computer Science | | |
| | Certified Software Analyst | Information Science/Studies | | |

*Includes Level I and Level II Certificates

For more information on postsecondary options for this programs of study, visit TXCTE.org

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|--------------------------------------|-------------|-----------------|----------|
| Computer Network Architect | \$111, 633 | 1,454 | 9% |
| Software Developer, Systems Software | \$103, 334 | 2985 | 25% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:

Work Based Learning Activities:

Join a coding or computer based

Obtain an industry based

The programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run



The 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.

COURSE INFORMATION

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|-------------------------------------|--|--|-------|
| Computer Programming I | 13027600 (1 credit) | None | 9-12 |
| AP Computer Science A | A3580110 (1 credit) A3580120 (1 credit) | None | 9-12 |
| Computer Programming II | 13027700 (1 credit) | RPREQ: Computer Programming I | 11-12 |
| Practicum of Information Technology | 13028000 (2 credit) | RPREQ: a minimum of two high school information technology courses | 12 |
| Career Preparation I | 12701300 (2 credit) 12701305 (3 credit) | None | 11-12 |
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FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY,
ENGINEERING AND MATHEMATICS CAREER CLUSTER, PLEASE CONTACT:

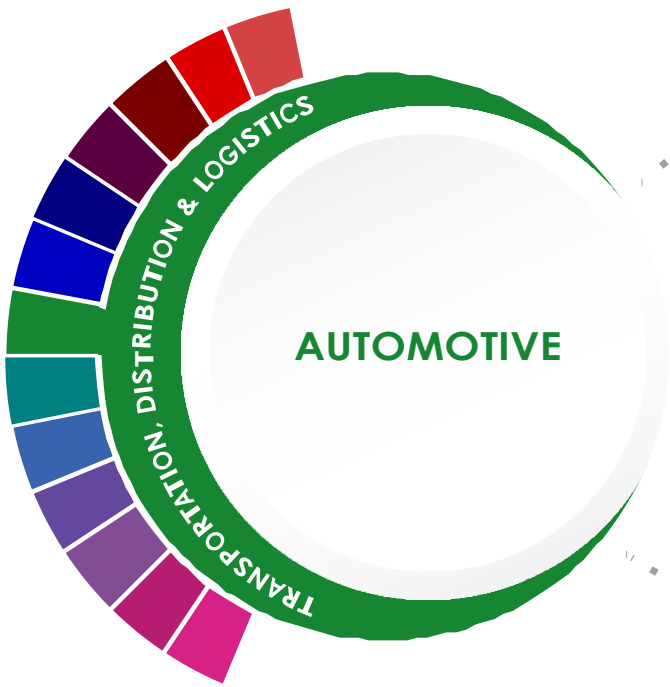
Jenny Arledge | jarledge@ssisd.net



Local Implementation Considerations:

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

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



COURSES

LEVEL 1

- 5500 - Auto Basics (1 Credit)
- Small Engine Technology (1 Credit)

LEVEL 2

- 0501 - Automotive Technology I (2 Credits - Advanced Level Course)

LEVEL 3

- 5502 - Automotive Technology II (2 Credits)

LEVEL 4

- 5504 - Practicum in Transportation Systems (2 Credits)
- 0305 - Career Preparation I (2 Credits)

POSTSECONDARY OPTIONS

| 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 | | |
| | Collision Repair and Refinish | | | |

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

| OCCUPATIONS | MEDIAN WAGE | ANNUAL OPENINGS | % GROWTH |
|---|-------------|-----------------|----------|
| Automotive Body and Related Repairers | \$40,144 | 1,456 | 25% |
| Automotive Service Technician and Mechanics | \$38,459 | 208 | 25% |

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
SkillsUSA competition
Automotive Service Association

Work Based Learning Activities:
Work at a local automotive repair or body shop.

The Automotive program of study teaches students how to repair and refinish automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.



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

| COURSE NAME | SERVICE ID | PREREQUISITES (PREQ) COREQUISITES (CREQ) | GRADE |
|---|--|---|-------|
| Principles of Transportation Systems | 13039250 (1 credit) | None | 9-12 |
| Automotive Basics | 13039550 (1 credit) | None | 9-12 |
| Automotive Technology I: Maintenance and Light Repair | 13039600 (2 credits) | None | 9-12 |
| Automotive Technology II | 13039700 (2 credits) | PREQ: Automotive Technology I: Maintenance and Light Repair | 11-12 |
| Practicum in Transportation Systems | 13040450 (2 credits) | None | 11-12 |
| Career Preparation I | 12701300 (2 credits) 12701305 (3 credits) | None | 11-12 |
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**FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION,
AND LOGISTICS CAREER CLUSTER, PLEASE CONTACT:**

Jenny Arledge | jarledge@ssisd.net

Course Selection Guide Worksheet

Use this worksheet to select courses for your Foundation High School Plan with Endorsement:

| | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|---|---|--|--|---|
| <p><i>English Language Arts</i> 4 Credits</p> | <input type="checkbox"/> English I PSP <input type="checkbox"/> English I CP | <input type="checkbox"/> English II PSP <input type="checkbox"/> English II CP | <input type="checkbox"/> English III PSP <input type="checkbox"/> English III CP <input type="checkbox"/> English III AP | <input type="checkbox"/> English IV PSP <input type="checkbox"/> English IV CP <input type="checkbox"/> English IV Dual Credit <input type="checkbox"/> English IV AP |
| <p><i>Mathematics</i> 4 Credits</p> <p><i>Algebra II satisfies requirement for Distinguished Level of Achievement</i></p> | <input type="checkbox"/> Algebra I PSP <p>For students who earned Algebra I credit in 8th grade:</p> <input type="checkbox"/> Geometry PSP (Prerequisite: Algebra I) <input type="checkbox"/> Geometry CP (Prerequisite: Algebra I) | <input type="checkbox"/> Geometry PSP <input type="checkbox"/> Geometry CP <input type="checkbox"/> Algebra II PSP (Prerequisite: Geometry) <input type="checkbox"/> Algebra II CP (Prerequisite: Geometry) | <input type="checkbox"/> Algebra II PSP <input type="checkbox"/> Algebra II CP <input type="checkbox"/> Accounting II <input type="checkbox"/> Robotics II <input type="checkbox"/> Financial Mathematics <input type="checkbox"/> Pre-Calculus PSP (Prerequisite: Algebra II) <input type="checkbox"/> Pre-Calculus CP (Prerequisite: Algebra II) | <input type="checkbox"/> Pre-Calculus PSP <input type="checkbox"/> Pre-Calculus CP <input type="checkbox"/> AP Computer Science <input type="checkbox"/> AP Calculus <input type="checkbox"/> College Ready Math <input type="checkbox"/> AP Statistics <input type="checkbox"/> College Algebra/College Statistics |
| <p><i>Science</i> 4 Credits</p> | <input type="checkbox"/> Integrated Physics & Chemistry PSP <p>Best for students who earned Algebra I credit in 8th grade:</p> <input type="checkbox"/> Biology PSP (Prerequisite: Algebra I) <input type="checkbox"/> Biology CP (Prerequisite: Algebra I) | <input type="checkbox"/> Biology PSP <input type="checkbox"/> Biology CP <input type="checkbox"/> Chemistry PSP (Prerequisite: Biology) <input type="checkbox"/> Chemistry CP (Prerequisite: Biology) | <input type="checkbox"/> Chemistry PSP <input type="checkbox"/> Chemistry CP <input type="checkbox"/> Physics PSP (Prerequisite: Chemistry) <input type="checkbox"/> Physics CP (Prerequisite: Chemistry) | <input type="checkbox"/> Physics PSP <input type="checkbox"/> Physics CP <input type="checkbox"/> Advanced Animal Science <input type="checkbox"/> Advanced Plant & Soil <input type="checkbox"/> Anatomy & Physiology CP <input type="checkbox"/> Concurrent Biology <input type="checkbox"/> Forensic Science <input type="checkbox"/> Astronomy |

| | 9 th Grade | 10 th Grade | 11 th Grade | 12 th Grade |
|--|--|--|--|--|
| <i>Social Studies</i> 4 Credits | <input type="checkbox"/> World Geography PSP <input type="checkbox"/> World Geography CP | <input type="checkbox"/> World History PSP <input type="checkbox"/> World History CP | <input type="checkbox"/> U.S. History PSP <input type="checkbox"/> U.S. History CP <input type="checkbox"/> Dual Credit U.S. History | <input type="checkbox"/> U.S. Government PSP (1/2) <input type="checkbox"/> U.S. Government CP (1/2) <input type="checkbox"/> Dual Credit U.S. Government (1/2) AND <input type="checkbox"/> Economics PSP (1/2) <input type="checkbox"/> Economics CP (1/2) <input type="checkbox"/> Dual Credit Economics (1/2) |
| <i>Foreign Language</i> 2 Credits <i>Fine Arts</i> 1 Credit <i>Personal Health & Finance</i> 1 Credit | <i>Foreign Language I Credit</i> <input type="checkbox"/> Spanish I PSP <input type="checkbox"/> Spanish I CP OR <input type="checkbox"/> French I PSP <input type="checkbox"/> French I CP <i>Foreign Language credits may also be taken in the 10th and 11th grade years instead of 9th and 10th grade years.</i> | <i>Foreign Language II Credit</i> <input type="checkbox"/> Spanish II PSP <input type="checkbox"/> Spanish II CP OR <input type="checkbox"/> French II PSP <input type="checkbox"/> French II CP | <i>Fine Art Credit (can take any year)</i> <input type="checkbox"/> Art I <input type="checkbox"/> Concert Band (1/2) <input type="checkbox"/> Choir <input type="checkbox"/> Dance I <input type="checkbox"/> Music & Media Communications <input type="checkbox"/> Floral Design <input type="checkbox"/> Strings <input type="checkbox"/> Theatre Arts I/Tech I | <i>Personal Health & Finance Credit</i> <input type="checkbox"/> Lifetime Nutrition & Wellness (1/2) AND <input type="checkbox"/> Dollars & Sense (1/2) <i>These credits may be taken in the 11th or 12th grade year.</i> |
| <i>Physical Education</i> 1 Credit <i>Technology</i> 1 Credit <i>Electives</i> 2 Credits | <i>Physical Education Credit</i> <input type="checkbox"/> Athletic Trainer <input type="checkbox"/> Marching Band (1/2) <input type="checkbox"/> Cheerleading <input type="checkbox"/> PE <input type="checkbox"/> Pre-Drill <input type="checkbox"/> Athletics _____ | <i>Technology Credit</i> <input type="checkbox"/> Business Information Management I | <i>Choice of Elective 1 Credit</i> <hr/> | <i>Choice of Elective 1 Credit</i> <hr/> |
| Endorsement Sequence 4-7 Credits | Endorsement Course 1 _____ | Endorsement Course 2 _____ | Endorsement Course 3 _____ | Endorsement Course 4 _____ |
| <i>Elective Options</i> | Elective Option _____ | Elective Option _____ | Elective Option _____ | Elective Option _____ |
| Total Credits 32 | 8 Credits | 8 Credits | 8 Credits | 8 Credits |