



Academic Handbook and Course Selection Guide



**Duncanville
Independent
School
District**

2022-2023

Middle School

Dear Students and Families,

Duncanville Independent School District is pleased to present the Course Selection Guide, which provides you with valuable information on all of the courses available at our first-class high school. By working in partnership with your child, we are able to design an academic plan that is challenging and provides flexibility to explore enriching opportunities.

Now is the time for your family to discuss your child's future goals and map the best course of action that is challenging and provides flexibility to explore enriching opportunities. This is the point of the school year when your family is encouraged to discuss your child's future goals and map the best course of action for high academic achievement.

This guide is filled with numerous opportunities for students to develop a career path. Our school counselors and administrators are here to provide support and guidance throughout the process of creating your student's Personal Graduation Plans (PGP). We hope that you will use the time of planning to discuss with your child how to successfully balance the rigors of high school with the outstanding opportunities available to them. We believe it is important for students to have a well-rounded high school experience, while striving for academic excellence.

Thank you for your partnership in this educational process, and remember that we are here to support, encourage, and prepare your child for a lifetime of success.

Sincerely,



Superintendent
Duncanville Independent School District



Duncanville ISD

Writing success stories, one student at a time.

Mission

We engage, equip and empower all scholars to achieve their unique potential.

Vision

Duncanville ISD – Where dreams are inspired and excellence is achieved.

Values

Professionalism

Accountability and excellence

Nurturing, safe environments

Transparent communication

Honest, integrity and ethics

Everyone contributing to student success

Relationships, equity and inclusion

Students as our top priority

My Future My Choice



COMPREHENSIVE EXPERIENCE

A traditional high school model with diverse course offerings and opportunities for students seeking a more flexible, personalized plan towards graduation and individual post-HS goals.

- On the DHS Campus
- Flexible course opportunities at Mountain View College
- Open Enrollment
- Offers , AP Honors, & Dual Credit & CTE Courses
- Free College Tuition & Books
- Opportunity for Extra/Co-Curricular Participation
- Partnerships are a local option
- Earn Associates degree or up to 60 hours
- Opportunity to earn Certificates and Certifications in 29 Career Pathways

P-TECH

Career pathway models in architectural design, automotive technology and education & training with a focus on earning an associate degree and certifications. *Expanding to additional CTE Pathways.

- On the DHS Campus and limited at Mountain View and Cedar Valley Colleges
- Application + Lottery when interest >60/cohort matching district demographics
- Offers AP, Honors, Dual Credit & CTE Opportunities
- Free College Tuition & Books
 - Work-based Learning
- Internship Opportunities
 - Defined Program
- University & Business Partner Required
 - Program within a school
- Earn Associate of Applied Science degree or up to 60 hours
- Opportunity to earn Certificates and Certifications
- Opportunity for Extra/Co-Curricular Participation

COLLEGIATE ACADEMY

*An Early College High School

An early-college model for selected students interested in accelerating to a post-secondary experience to pursue an associate degree while in HS.

- On the ECHS campus at DHS for 9th/10th
- At Mountain View College for 11th/12th
- Application + Lottery when interest >125/cohort matching district demographics
- Offers Dual Credit & Limited AP, and Honors
 - Defined Program for multi-disciplinary endorsement
- Free College Tuition & Books
- University Partner Required
- Earn Associate of Arts or Science degree or up to 60 hours
- Limited opportunity for Extra/Co-Curricular Participation
 - School within a school

T-STEM

A career-pathway model focused on Science, Technology, Engineering & Math for students pursuing a STEM-related certification or degree in a STEM-related field post-HS.

- On the DHS Campus & designated MS
- Application + Lottery when interest >60/cohort matching district demographics
- Offers AP, Honors, Dual Credit & CTE Opportunities
- Free College Tuition & Books
 - Work-based Learning
- Internship Opportunities
 - Defined Program
- University & Business Partner Required
 - Earn 15 or more hours
- Opportunity to earn Certificates and Certifications
 - Opportunity for Extra/Co-Curricular Participation
 - Program within a school

Choice programming is offered at each middle school campus. It is important to know that this course description guide includes all middle school courses that are offered in the Duncanville ISD. However, due to enrollment, teacher availability, and programming not every class will be offered every year at every school. Contact your counselor for details about each program and courses offered within that program. The application window for middle school choice programs is in January of each year.

For more exploration visit:

duncanvilleisd.org/middleschoolchoice



DUNCANVILLE ISD

Writing success stories, one student at a time.

My Future. My Choice.

Get a head start on your career choice in middle school while earning high school credits.

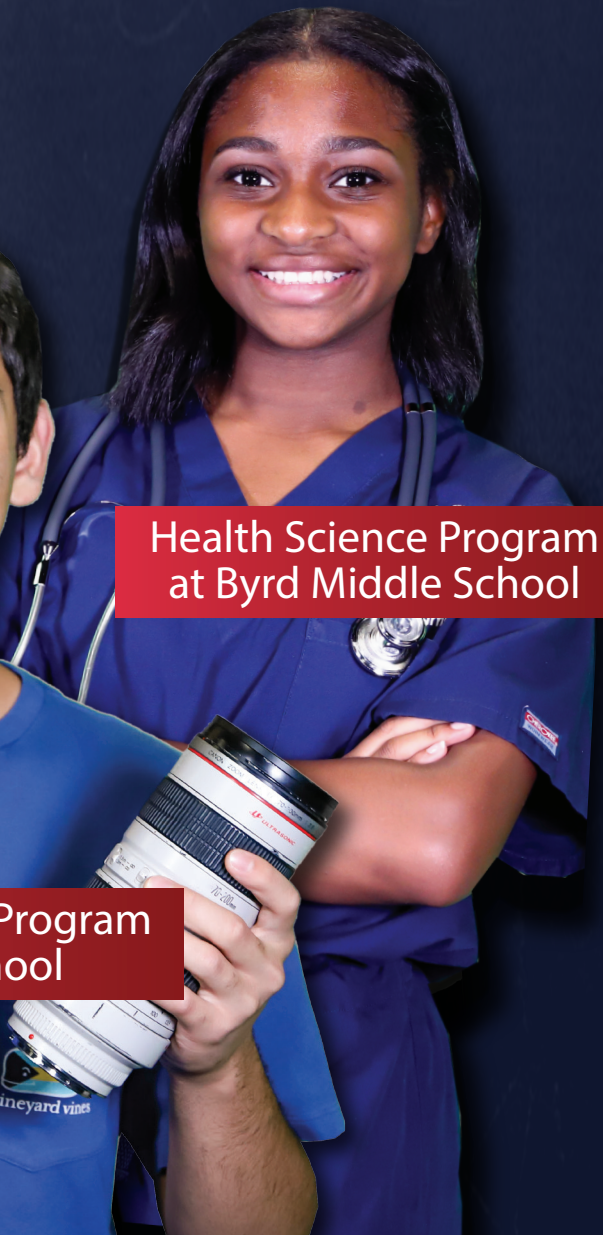
Duncanvilleisd.org/MiddleSchoolChoice



STEAM Academy
at Kennemer Middle School



Business & Technology Program
at Reed Middle School



Health Science Program
at Byrd Middle School

Table of Contents

Superintendent Message.....	2
Duncanville Independent School District Mission, Vision and Values.....	3
My Future. My Choice.	4
Table of Contents.....	6-7
STAAR Exams.....	8
Credit by Examination.....	8
Schedule Change Requests.....	8
Online Registration	8
What does it take to graduate from high school.....	9
Testing Requirements for High School.....	9
Personal Graduation Description.....	10
Duncanville High School House Bill 5 endorsements.....	11
Middle School Pre-Advancement Placement	12
Do I receive High School Credit for Middle School Courses?	13
Foundation High School Plan	14

Course Descriptions:

English Language Arts	15-16
Mathematics.....	17-18
Science	19-20
Social Studies.....	21-22
Electives.....	23-25
Project Lead the Way.....	26-27
Career and Technical Education Courses	28-29
Fine arts Electives-Band and Choir	30-31
Physical Education/Athletics.....	32-34

Dual Credit Programs

T-STEM 4 Year Plan Electronics Technology	36
T-STEM 4-Year Plan Advanced Manufacturing/Mechatronics Technologies.....	37
P-TECH 4-Year Plan Associates of Arts in Teaching Degree, EC-6 Bilingual Ceertification.....	38
P-TECH 4-Year Plan Computer-Aided Design and Drafting.....	39
P-TECH 4-Year Plan Automotive Technology.....	40

Career and Technical Education

4-Year Plan.....	41
P-Tech & T-Stem Programs.....	42
Dual Credit Programs.....	43
Duncanville CTE.....	44
Personal Graduation Plan	45
Advanced Manufacturing & Machinery Mechanics.....	46-47
Animal Science.....	48-49
Architectural Design.....	50-51
Automotive Technology.....	52-53
Business Management.....	54-55
Carpentry.....	56-57

Collision Repair.....	58-59
Cosmetology & Personal Care Services.....	60-61
Culinary Arts.....	62-63
Cybersecurity.....	64-65
Design & Multimedia Arts.....	66-68
Digital Communications.....	69-70
Early Learning.....	71-72
Electrical.....	73-74
Engineering.....	75-76
Family & Community Services.....	77-78
Health & Wellness.....	79-80
Healthcare Diagnostics.....	81-82
Healthcare Therapeutic.....	83-85
Marketing & Sales.....	86-87
Medical Therapy.....	88-89
Nursing Science.....	90-91
Plant Science.....	92-93
Printing & Imaging.....	94-95
Programming.....	96-98
Teaching & Training.....	99-100
Web Development.....	101-102
Welding.....	103-104
Career and Technical Student Organizations.....	105-106
Planning for Your Future	107
College Entrance Exams and Test Prep.....	108
Financial Aid and Scholarships	109
Additional Respurces.....	110
College Readiness Checklist for Middle School.....	111
Freshman/Sophomore Year.....	112
Junior Year	113-114
Senior Year.....	114-115
Duncanville Course Selectino Guide Comettee.....	116
Notice.....	117
Access to Student Records.....	117

MIDDLE SCHOOL STAAR EXAMS

7TH Grade:

STAAR Grade 7 Math

STAAR Grade 7 Reading Language Arts

STAAR Grade 8 Math

*STAAR Algebra I EOC

8TH Grade:

STAAR Grade 8 Math

STAAR Grade 8 Reading Language Arts

STAAR Grade 8 Science STAAR

Grade 8 Social Studies

*Applies to students enrolled in Algebra I in 8th grade.

**HB 4545 establishes new requirements for accelerated instruction for students who do not pass the State of Texas Assessments of Academic Readiness (STAAR®). At a high level, the legislation includes:

- Elimination of grade retention and retesting requirements in grades 5 and 8

- For any student who does not pass the STAAR test in grade 3, 5, or 8 in math or reading, a new LEA requirement to establish an accelerated learning committee to develop an individual educational plan for the student and monitor progress

CREDIT BY EXAMINATION

CREDIT BY EXAMINATION WITHOUT PRIOR INSTRUCTION: Students may use credit by examination to demonstrate mastery to earn credit in any available academic course without prior instruction. Such examinations shall thoroughly test essential knowledge and skills in the applicable area. Tests are from a State Board approved university. Students must score 80 or better per semester in order to receive course credit.

Test dates will be published at the beginning of each school year. A student planning to take an examination for acceleration shall be required to register with their counselor no later than 30 days prior to the scheduled testing date on which the student wishes to take the test. No fee shall be charged for an examination for acceleration provided by the District. If a parent or student requests an alternate examination, the District may administer a test purchased by the parent or student from a State Board-approved university.

SCHEDULE CHANGE REQUEST

Students and/or parents who are requesting a change in a student's schedule need to fill out a schedule change request form with a counselor at the middle school. See Pre AP guidelines for schedule change process.

ONLINE REGISTRATION

All parents seeking to enroll their students in the Duncanville ISD are required to register using the district Online Registration process. Registering your middle school student online is simple and less time-consuming. The District's use of an Online Registration process has made going back to school, or enrolling during the year, easier for returning and new-to-district families. Parents are able to complete required enrollment documents online. Parents just need to visit the district website at www.duncanvilleisd.org and click on the Parent Resources tab. After the menu appears, click on the How to Enroll and Register tab and you're ready to start the process. From the How to Enroll and Register page, click on either the Returning Students box or the New to District Student box, as appropriate, and follow the instructions. If you have difficulties, call the registrar at your student's school or call the district administration building at 972-708-2000 for assistance.

WHAT DOES IT TAKE TO GRADUATE FROM HIGH SCHOOL?

Classifications of Students

Student classification is determined by the number of credits accumulated by the end of the preceding year.

To be a ninth grade student (freshman) *Completion of Eighth Grade Requirements

To be a tenth grade student (sophomore)..... 6 Credits Required

To be an eleventh grade student (Junior)12 Credits Required

*To be a twelfth grade student (Senior).....18 Credits Required

*By the semester average in each course attempted. The State of Texas has set 70 as a minimum-passing grade.

For each semester course passed with a 70 or above, the student receives 1/2 credit or more.

TESTING REQUIREMENTS FOR GRADUATION

Testing Requirements for Students Graduating under State of Texas Assessment of Academic Readiness (STAAR) End of Course (EOC)

HB 4545 establishes new requirements for accelerated instruction for students who do not pass the State of Texas Assessments of Academic Readiness (STAAR®). The legislation includes:

Elimination of grade retention and retesting requirements in grades 5 and 8

For any student who does not pass the STAAR test in grade 3, 5, or 8 in math or reading, a new LEA requirement to establish an accelerated learning committee to develop an individual educational plan for the student and monitor progress

What content areas does STAAR EOC include?

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

To graduate, a student must meet the Level II Met Standard score requirement for the EOC tests in English 1, English 2, Algebra 1, Biology, and U.S. History.

If a student does not achieve Level II Met Standard or above on any state required EOC assessment, the student must retake the assessment until a Level II Met Standard or above is attained. A student is not required to retake a course as a condition of retaking an EOC assessment.

PERSONAL GRADUATION DESCRIPTION

House Bill 5 requires each student to connect to a personal graduation plan that leads to an endorsement. This process requires a district to consider the importance in using programs of study and the personal graduation plan, collaboratively, to satisfy current and prior legislation. The program of study is an advisement tool for students, parents and counselors. It is a map for college and career readiness aligned to an occupational objective. A program of study is considered the intensive education plan, as required. Programs of study work best when they are developed by stakeholders to ensure relevant and accurate information. The personal graduation plan is a working document used by counselors to track student completion of graduation requirements. It is a tool used to document grades, assessments, acceleration, and other requirements in law. The personal graduation plan is an opportunity for students and counselors to meet individual needs.

The use of the program of study and personal graduation plan is necessary to ensure desired outcomes for college and career readiness.

Students entering 9th Grade must choose from one of the following endorsements:

- Arts and Humanities
- Business and Industry
- Public Services
- STEM
- Multidisciplinary Studies

Students may change their endorsement at any time prior to graduation; however a delay in graduation may result. For more information please contact your campus counselor.

Planning for the Future

In DISD our goal is to double the number of students who graduate and go on to earn some form of higher education. To help students achieve their goal of a technical certificate, two-year degree, or four-year degree, we have included the Foundation Graduation Plan Overview. Please contact your counselor for more information about making plans for your future. We are here to help you achieve your goals and have resources available to help you.

Introduction to Course Planning

Making a successful transition to the middle school or from grade level to grade level with as little stress as possible is very important for students and parents alike. It is essential that parents and students understand that the academic foundation the student builds at the middle level will determine, to some degree, the success the student will have at the high school level.

College preparation is best thought about and planned for in the middle years. The academic preparation that begins in the middle school and continues at the high school level is probably the most important activity impacting a student's future.

Secondary programs begin in the middle school when students must assume more responsibility for their education and behavior. Reed Middle School, Byrd Middle School, and Kennemer Middle School offer support and guidance for students as they make the transition from elementary level to secondary level. The counseling staff is prepared to assist students and parents in course selections, testing programs, and college preparation.

Academic success and student service are recognized through the National Junior Honor Society, Student Council, Academic Pep Rallies, honor rolls, End of Year Awards Programs, and classroom recognition. Participation in various clubs and organizations at the middle level is encouraged to develop responsibility and involvement.

** When students choose to take high school courses at the middle school campus, the courses are not considered in the determination of class rank.

DUNCANVILLE HIGH SCHOOL HOUSE BILL 5 ENDORSEMENTS

Arts & Humanities

The Arts & Humanities Endorsement can be earned by taking a coherent sequence of courses directly related to fine and performing arts, political science, world languages, cultural studies, and English literature.

Six Options:

- A) A total of five social studies courses
- B) Four levels of the same language in a language other than English
- C) Two levels of the same language in a language other than English and two levels of a different language in a language other than English
- D) Four levels of American Sign Language
- E) A coherent sequence of four credits by selecting courses from one or two categories or disciplines in fine arts or innovative courses
- F) Four English Elective credits

Business & Industry

The Business & Industry Endorsement can be earned by taking a coherent sequence of courses directly related to the following:

Architecture & Construction

Arts, Audio/Video Technology & Communication

Business Management
Finance

Information Technology

Marketing

Manufacturing

Transportation,
Distribution & Logistics

Cosmetology

Culinary Arts

English Electives:

- Broadcast Journalism
- Newspaper
- Debate

STEM (Science, Technology, Engineering & Math)

The STEM Endorsement can be earned by taking a coherent sequence of courses directly related to the following:

Engineering

Electronics

Emphasis in Mathematics
Science

Computer Science

Public Service

The Public Service Endorsement can be earned by a coherent sequence of courses directly related to the following:

Education & Training

Human Services

Health Science

Multi-disciplinary Studies

The Multidisciplinary Studies Endorsement can be earned by completing foundation and general endorsement requirements and:

Three Options:

- A) Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence
- B) Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics
- C) Four credits in Advanced Placement or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts

MIDDLE SCHOOL PRE-ADVANCEMENT PLACEMENT

What are Honors courses?

Honors courses are on-grade level academically advanced courses designed to challenge motivated students to understand rigorous content. The coursework requires students to engage in independent and analytical assignments and to complete a substantial amount of work outside of class. DISD offers Honors courses in English, math, science, and social studies.

Middle School Level:

Honors middle school courses are designed to prepare students for high school Honors and Advanced Placement (AP) courses. Honors Math compacts 7-8th grade math in the seventh grade year and Algebra I in the 8th grade year. This acceleration allows students to take Geometry as a freshman.

High School Level:

The Honors English I is an accredited offering for students who demonstrate mastery of standards set by the Honors English & writing.

AP courses are college-level courses taught in a high school setting. At the end of each AP course an AP Exam is given, but not required. Students are responsible for exam costs. Qualifying scores on the AP exams can enable students to receive college credit and/or advanced standing at a university or college. Please note, all college and universities have different AP Exam score requirements.

Are there entry criteria for enrolling in Honors courses at middle school level?

Duncanville ISD offers Honors courses. Students must have parental approval for each subject to enroll. Final placement for Pre-AP courses lies with campus administration. Students who experience success in Honors courses typically exhibit the following personal and academic characteristics.

Personal Characteristics:

- Reading on or above grade level
- Strong study skills and self-motivation
- Proficient oral and written communication skills
- Self-discipline to plan, organize, and carry out tasks to completion
- Interest and self-directedness in a particular subject

Academic Characteristics:

- Successful performance in related content area courses (Example: math and science or English and social studies)
- Teacher recommendation
- Advanced scores on STAAR test in corresponding content area/s

How many Honors courses should a student take at the middle school level?

Students are encouraged to take Honors courses that are appropriate to their interests and academic strengths. The number of Honors courses also varies with students' motivation, self-discipline, and available time outside of class. Students are not expected to enroll in Honors courses in all core subject areas.

Must a student take Honors courses in order to be prepared for college?

All academic courses in DISD offer appropriate instruction to prepare students for college or university work. Many DISD students without Honors and AP coursework successfully complete college educations.

Additional information on the intermediate school Honors program is available from the intermediate school counselor and campus administrator.

DO I RECEIVE HIGH SCHOOL CREDIT FOR MIDDLE SCHOOL COURSES?

Middle School Course	Type of High School Credit Earned With Passing Grades	Next Course To Be Taken in High School
Spanish I Honors - Full Year	1 Spanish I credit	Spanish II
Spanish I - Full year	1 Spanish I credit	Spanish II
Algebra I Honors – Full Year	1 math credit	Geometry or Geometry Honors
Art 1 Honors	1 art credit	Art-II
Health	.5 health local credit	N/A
Professional Communication	.5 credit	N/A
English I Honors – Full Year Principles of Arts, A/V, and Communications	1 English Credit 1 CTE credit	<ul style="list-style-type: none"> • Animation • Audio Video Production • Commercial Photography • Fashion Design • Graphic Design
Principles of Information Technology	1 CTE credit	<ul style="list-style-type: none"> • Computer Maintenance • Digital Media • Web Technologies
Business Information Management I	1 CTE credit	<ul style="list-style-type: none"> • Business Information Management I-Certification
Principles of Government and Public Administration	1 CTE credit	<ul style="list-style-type: none"> • Political Science
High School Prep	1 CTE credit	

Students passing grades for both semesters (full year) at the middle school level will receive credit on their high school transcript as indicated on the chart above. Once credit is awarded, students cannot repeat the course. Grades earned in middle school will not be calculated in the high school GPA. Check with your campus to verify that the course is being offered.

DUNCANVILLE ISD FOUNDATION HIGH SCHOOL PLAN

English 4 Credits	Math 3 Credits	Social Studies 3 Credits	Science 3 Credits
English I	Algebra I	World Geography Studies OR World History Studies	Biology
English I	Algebra I	World Geography Studies OR World History Studies	Biology
English I	Algebra I	World Geography Studies OR World History Studies	<u>3rd Credit</u> Aquatic Science Chemistry Astronomy Physics Environmental Science Medical Microbiology Anatomy and Physiology Pathophysiology Food Science Computer Science
English I	One additional credit from any of the following: World History Studies World Geography Studies Any science course approved by SBOE (If Chemistry or Physics is substituted for IPC, then the other must be used as academic elective credit here.) <small>*College Board Advanced Placement, Dual Credit and UT OnRamps courses may be substituted in appropriate areas for both Foundation and Endorsement credits.</small>		

DUNCANVILLE ISD ENGLISH LANGUAGE ARTS SUGGESTED COURSE SEQUENCING

Standard Course Sequence	Accelerated Course Sequence
7th Grade English	7th Grade English Pre-AP
8th Grade English	8th Grade English Pre-AP
English I	English I Pre-AP
English II	English II Pre-AP
English III	English III AP
English IV OR EnglishV Dual Credit OR OnRamps English/Rhetoric	English IV Dual Credit OR English IV AP OR OnRamps English/Rhetoric

Academic Electives
Creative Writing
Advanced Journalism: Literary Magazine I, II
Debate I, II, III, IV
Journalism I
Journalism: Photojournalism I, II
Journalism: Yearbook I, II, III
Journalism: Newspaper I, II, III
Oral Interpretation I, II, III, IV
Professional Communications- Dual Credit

*Please Note: Students may change pathway with proper approval.

ENGLISH LANGUAGE ARTS/ READING

No	Course	Grade	Credit
0701201	ENGLISH LANGUAGE ARTS/READING	7 th GRADE	Full Year

In 7th grade English Language Arts and Reading students will read and understand a wide variety of literary and informational texts. They will also compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail. Additionally, students will conduct research and synthesize and present ideas and information. In both speaking and writing, students will also learn how to apply the oral and written conventions of the English language.

0701101	ENGLISH LANGUAGE ARTS/READING Honors	7 th GRADE	Full Year
---------	--------------------------------------	-----------------------	-----------

In 7th grade Honors English Language Arts, students will be introduced to literary knowledge, concepts, and skills designed to prepare them for advanced course work (AP courses) in high school and beyond. With a focus on continual application of higher level thinking skills, students will read and understand a wide variety of literary and informational texts. They will also compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail. Additionally, students will conduct research and synthesize and present ideas and information. In both speaking and writing, students will also learn how to apply the oral and written conventions of the English language.

0701205	ENGLISH AS A SECOND LANGUAGE Prerequisite: LPAC recommendation	7 th Grade	Full Year
---------	---	-----------------------	-----------

This course is designed to assist the English Language Learner, continue to develop and become competent in reading and writing through the integrated use of second language acquisition instructional methods. The students will receive instruction in the four language domains: listening, speaking, reading, and writing. Prior approval of the Language Proficiency Assessment Committee (LPAC) is required for enrollment in this course. Placement will be determined according to previous TELPAS scores

0801205	ENGLISH AS A SECOND LANGUAGE Prerequisite: LPAC recommendation	8 TH Grade	Full Year
---------	---	-----------------------	-----------

This course is designed to assist the English Language Learner, continue to develop and become competent in reading and writing through the integrated use of second language acquisition instructional methods. The students will receive instruction in the four language domains: listening, speaking, reading, and writing. Prior approval of the Language Proficiency Assessment Committee (LPAC) is required for enrollment in this course. Placement will be determined according to previous TELPAS scores.

0801201	ENGLISH LANGUAGE ARTS/READING	8 th Grade	Full Year
---------	-------------------------------	-----------------------	-----------

In 8th grade English Language Arts and Reading students will read and understand a wide variety of literary and informational texts. They will also compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail. Additionally, students will conduct research and synthesize and present ideas and information. In both speaking and writing, students will also learn how to apply the oral and written conventions of the English language. In eighth grade, students will build on their prior knowledge and skills introduced in 7th grade in order to strengthen their reading, writing, and oral language skills.

0801200	ENGLISH LANGUAGE ARTS/READING Honors	8 th Grade	Full Year
---------	--------------------------------------	-----------------------	-----------

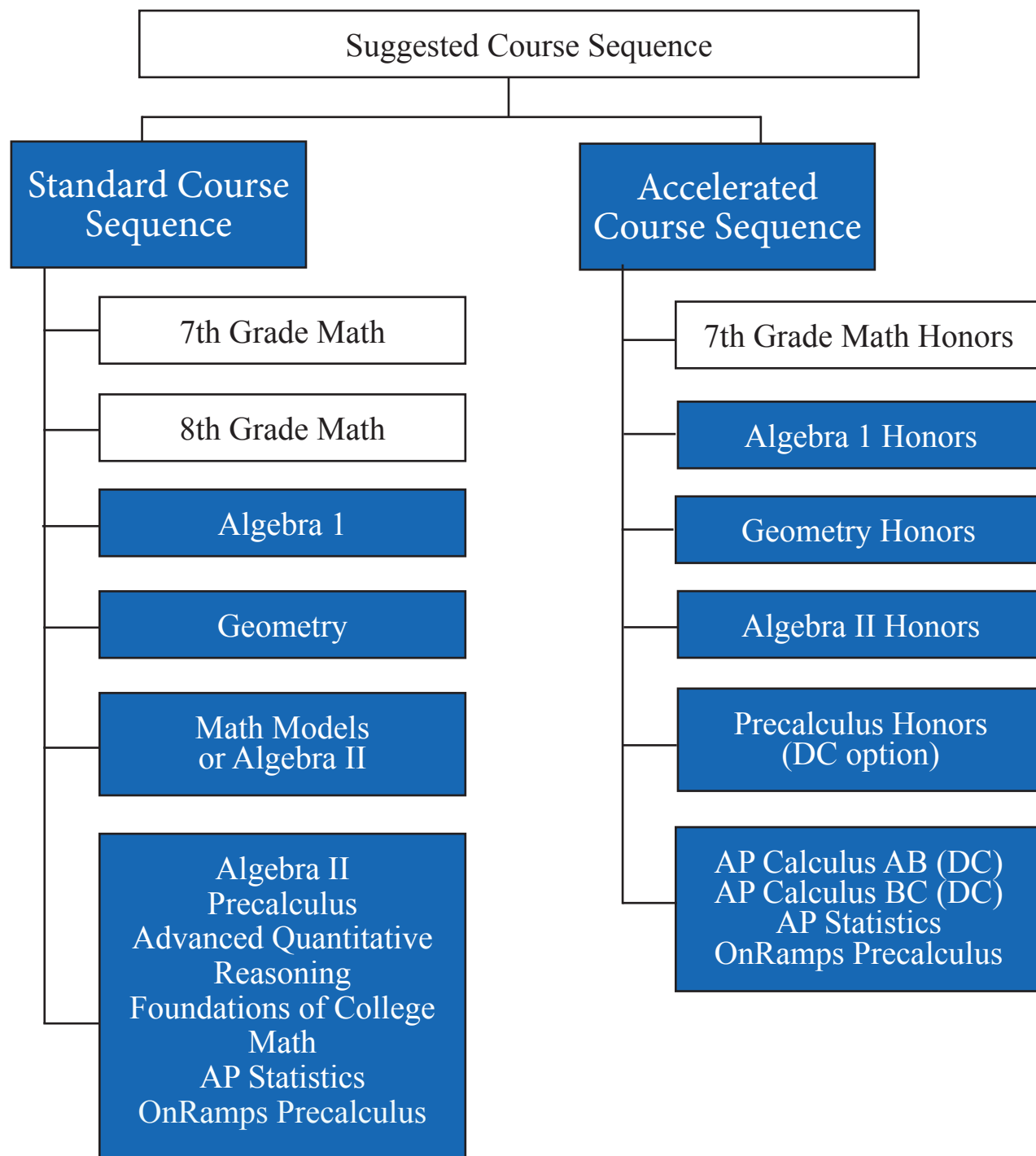
In 8th grade Honors English Language Arts, students will be introduced to literary knowledge, concepts, and skills designed to prepare them for advanced course work (AP courses) in high school and beyond. With a focus on continual application and development of higher level thinking skills, students will read and understand a wide variety of literary and informational texts. They will also compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail. Additionally, students will conduct research and synthesize and present ideas and information. In both speaking and writing, students will also learn how to apply the oral and written conventions of the English language.

0715162/0815162	English Language Development and Acquisition (ELDA) Prerequisite: LPAC recommendation	7 th /8 th Grade	Full Year
-----------------	--	--	-----------

This course is designed to provide instructional opportunities for secondary recent immigrant students with little or no English proficiency. The course will validate a student's native language and culture as a valuable resource and as a foundation to attain the English language. It will develop social language, survival vocabulary, and the basic building blocks of literacy for newly arrived and preliterate students. Through comprehensible input, students have access to a curriculum that accelerates second language acquisition. Students are challenged to apply higher-order thinking skills in all four language domains.

DUNCANVILLE ISD MATHEMATICS SUGGESTED COURSE SEQUENCING

High School Credit



Pre-AP = Pre-Advanced Placement
AP = Advanced Placement
DC = Dual Credit

MATHEMATICS

No	Course	Grade	Credit
----	--------	-------	--------

07031201	MATH HONORS	7 th Grade	Full Year
----------	-------------	-----------------------	-----------

The primary focal areas of this course are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students will engage in the mathematics content through the mathematics process standards which include analyzing mathematical relationships to connect and communicate mathematical ideas.

0703101	MATH HONORS	7 th Grade	Full Year
---------	-------------	-----------------------	-----------

This course is an accelerated course offered to 7th graders which allows students to take Algebra I Honors in 8th grade. The course covers all TEKS in 7th and 8th grade math. Students taking this course will take the STAAR Grade 8 Mathematics.

0803201	MATH	8 th Grade	Full Year
---------	------	-----------------------	-----------

The primary focal areas of this course are proportionality; expressions, equations, relationships, and foundations of functions; and measurement and data. Students will engage in the mathematics content through the mathematics process standards which include analyzing mathematical relationships to connect and communicate mathematical ideas.

0803101	ALGEBRA I HONORS	8 th Grade	Full Year
---------	------------------	-----------------------	-----------

1 HS Credit

Prerequisite: 7th Grade Honors Math or 8th Grade Math

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students taking this course will take STAAR Algebra I EOC.

DUNCANVILLE ISD

SCIENCE SUGGESTED COURSE SEQUENCING

High School Credit

Standard Course Sequence	Accelerated Course Sequence
Science I (7th Grade)	Science I Honors (7th Grade)
Science II (8th Grade)	Science II Honors (8th Grade)
Biology I	Biology I Honors
IPC, Chemistry OR Physics I	Chemistry I Honors
Advanced Science	Advank - AP Physics I
Advanced Science	Advanced Science

Advanced Sciences

Chemistry I	Scientific Research and Design
Physics I	Physics II AP/Physics II AP Dual Credit
Biology II AP	Principles of Technology
Food Science	Chemistry II AP
Environmental Science	Anatomy and Physiology

SCIENCE

No	Course	Grade	Credit
0704201	SCIENCE I	7th Grade	Full Year

This is an integrated laboratory-based approach to the study of the natural world. Most of the focus of this course is on organisms and the environment and the processes involved. Students will also focus on matter and energy; force, motion and energy; earth and space; and organisms and environments.

0704200	SCIENCE I HONORS	7th Grade	Full Year
----------------	-------------------------	-----------------------------	------------------

The Science 7 Pre-Advanced Placement (Honors) class is designed to prepare highly-motivated and self-disciplined students to take and succeed in advanced coursework with rigor and depth as they move toward the Advanced Placement Program. In addition to the content taught in the on level course, it is differentiated by the depth of content presentation and development of higher-level critical thinking and understanding.

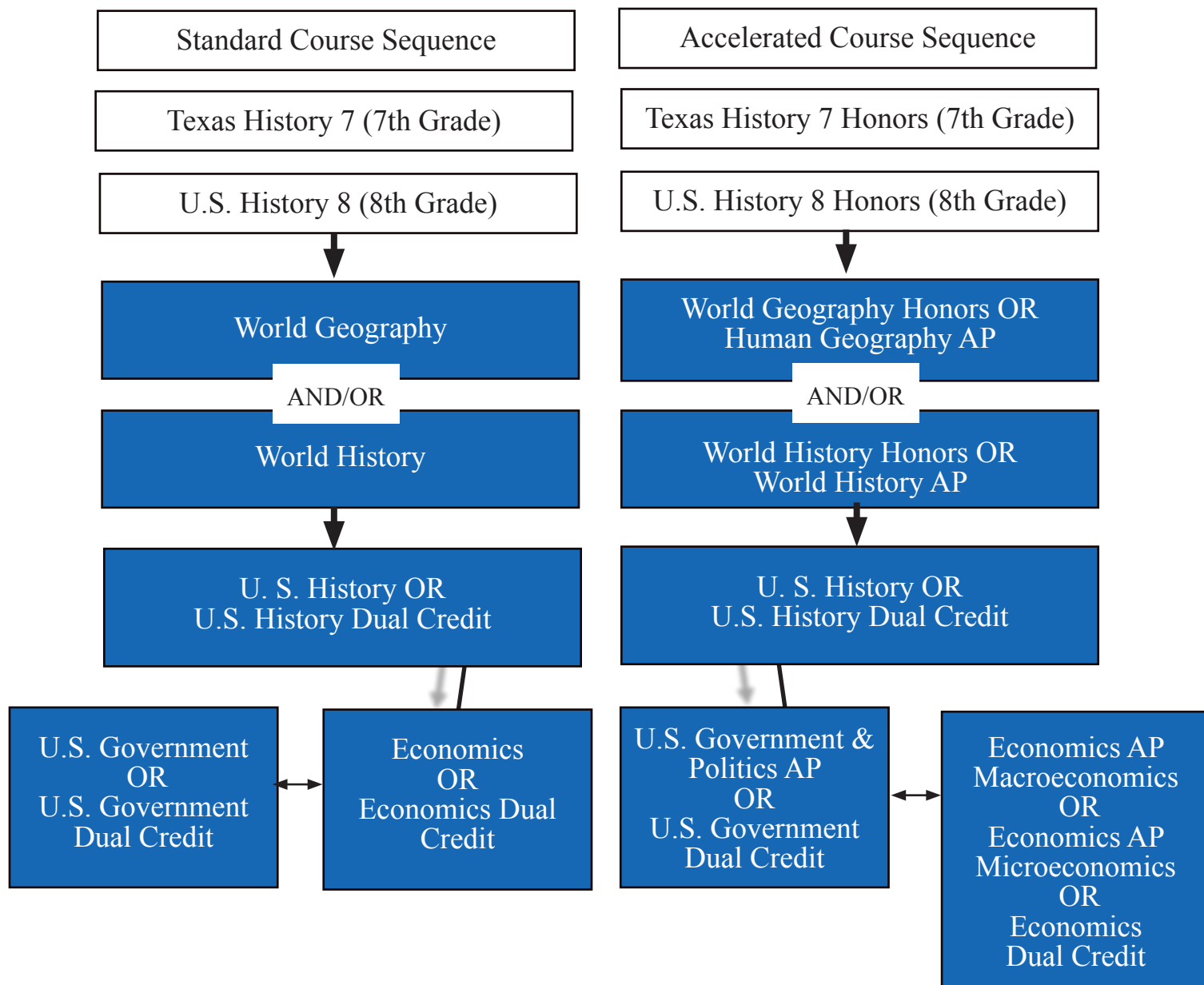
0804201	SCIENCE II	8th Grade	Full Year
----------------	-------------------	-----------------------------	------------------

This is an integrated laboratory-based approach to the study of the natural world. Most of the focus of this course is on earth and space science and the processes involved. Students will also focus on matter and energy; force, motion and energy; earth and space; and organisms and environments.

0804200	SCIENCE II HONORS	8th Grade	Full Year
----------------	--------------------------	-----------------------------	------------------

The Science 8 Pre-Advanced Placement (Honors) class is designed to prepare highly-motivated and self-disciplined students to take and succeed in advanced coursework with rigor and depth as they move toward the Advanced Placement Program. In addition to the content taught in the on level course, it is differentiated by the depth of content presentation and development of higher-level critical thinking and understanding.

DUNCANVILLE ISD SOCIAL STUDIES SUGGESTED COURSE SEQUENCING



Social Studies Elective Courses

- Sociology
- Psychology, Psychology AP
- Special Topics in Social Studies
- Special Topics in African American Studies
- Special Topics in Latin American Studies

- Special Topics in Asian American Studies
- Special Topics in World Wars of the Twentieth Century
- Law Studies
- European History AP
- Social Studies Research Methods

*Please Note: Students may change pathway with proper approval.

SOCIAL STUDIES

High School Credit

No	Course	Grade	Credit
0705201	TEXAS HISTORY	7th Grade	Full Year

In Grade 7, students study the history of Texas from the Age of Contact through contemporary Texas. The focus in each era is on key individuals, events and issues, and their impact. Students also study regions of Texas and the impact on population patterns; describe the structure and functions of municipal, county, and state governments; examine the rich and diverse cultural background of Texas; and analyze the impact of scientific discoveries and technological innovations on the development of Texas.

0705200	TEXAS HISTORY HONORS	7th Grade	Full Year
----------------	-----------------------------	------------------	------------------

The Texas History 7th grade Pre-Advanced Placement (Honors) class is designed to prepare highly-motivated and self-disciplined students to take and succeed in advanced coursework leading in high school to Advanced Placement courses and possible college credit. Students and parents must sign a contract outlining the expectations and responsibilities of students enrolled in this course. Students study the history of Texas eras from the age of contact through contemporary Texas. The focus in each era is on key individuals, events and issues, and their impact. Students also study regions of Texas and the impact on population patterns; describe the structure and functions of municipal, county, and state governments; examine the rich and diverse cultural background of Texas; and analyze the impact of scientific discoveries and technological innovations on the development of Texas.

0805201	AMERICAN HISTORY: THE EARLY COLONIAL PERIOD THROUGH RECONSTRUCTION	8th Grade	Full Year
----------------	---	------------------	------------------

Introduction focusing on the political, economic, religious, and social events and issues related to the eras of American history. Students describe the physical characteristics of the United States and the impact on population patterns, analyze economic factors that influenced the development of the United States, examine American beliefs and principles, evaluate the impact of important Supreme Court cases and major reform movements of the 19th century, and analyze the impact of scientific discoveries and technological innovations on the development of the United States.

0805200	AMERICAN HISTORY HONORS: THE EARLY COLONIAL PERIOD THROUGH RECONSTRUCTION	8th Grade	Full Year
----------------	--	------------------	------------------

The American History 8th grade Pre-Advanced Placement (Honors) class is designed to prepare highly-motivated and self-disciplined students to take and succeed in advanced coursework leading in high school to Advanced Placement courses and possible college credit. Students and parents must sign a contract outlining the expectations and responsibilities of students enrolled in this course. Students study the history of the United States from the early colonial period through Reconstruction focusing on the political, economic, religious, and social events and issues related to the eras of American history. Students describe the physical characteristics of the United States and the impact on population patterns, analyze economic factors that influenced the development of the United States, examine American beliefs and principles, evaluate the impact of Supreme Court cases and major reform movements of the 19th century, and analyze the impact of scientific discoveries and technological innovations on the development of the United States.

ELECTIVES

NO.	COURSE	GRADE	CREDIT
0710201	Art I	7th Grade	Semester
This course introduces the students to the fundamentals of art. This includes art elements, art principles, and an overview of art history and cultural heritage. The student will express these fundamentals in painting, drawing, collage, optical illusions, linear perspective, and paper mosaic.			
0810201	Art I	8th Grade	Semester
This course introduces the students to the fundamentals of art. This includes art elements, art principles, and an overview of art history and cultural heritage. The student will express these fundamentals in painting, drawing, collage, optical illusions, linear perspective, and paper mosaic.			
0710202	Art II Prerequisite: Art I	7th Grade	Semester
This is an advanced art class in which the students will work on more sophisticated projects using the fundamentals learned in Art I. Some of the projects will include painting, ceramics, drawing, animation, caricatures, and cross-stitching.			
0810202	Art II-Prerequisite: Art I	8th Grade	Semester
This is an advanced art class in which the students will work on more sophisticated projects using the fundamentals learned in Art I. Some of the projects will include painting, ceramics, drawing, animation, caricatures, and cross-stitching.			
0910032	Art I Pre AP High School 1 HS Credit Prerequisite: Middle School Art I and Art II, teacher recommendation and student portfolio	8th Grade	Full Year
This course emphasizes the study of basic art concepts designed to introduce the student to the importance of recognizing, defining, and applying the ELEMENTS OF ART and the PRINCIPLES OF DESIGN in composition, to expose the student to various art movements, and to explore the use of a variety of media available to the artist in both two and three-dimensional art projects. Art supplies are required.			
0709201	Introduction to Spanish	7th – 8th Grade	Full Year
This course is an introductory class to Spanish. It provides opportunities for students to listen and speak the language for a variety of purposes. It will strengthen student sensitivity to the language and integrate writing, speaking, and listening opportunities in the creation and interpretation of meaningful texts. This class prepares students for a high school Spanish course.			
080910	Spanish I Honors-1 HS Credit	8th Grade	Full Year
This class is a one-year Spanish course which uses an oral-aural approach to develop concurrently the skills of listening comprehension, speaking, reading, and writing the language. Students study the geography and cultures of Spanish speaking countries. This class is taught at a rapid pace, and students are expected to have independent study skills. This course earns a full high school credit.			

<u>NO.</u>	<u>COURSE</u>	<u>GRADE</u>	<u>CREDIT</u>
0807102	Health	7th – 8th Grade	Semester

Health Education involves the learning of physical, mental, and social health that will enable the student to live a longer and healthier life. Areas such as drug and tobacco use, body systems, diseases including STDs and AIDS, physical and mental illness, environmental pollution, and first aid are among the major areas covered.

0814211	Yearbook	7th & 8th Grade	Full Year
----------------	-----------------	--	------------------

This course will expose students to basic journalism and photography. These two concepts will be combined to create a campus yearbook. A wide variety of technology hardware and software will be utilized in this course. Seventh grade students wishing to participate in program will be enrolled in Yearbook. If they participate in Yearbook the second year, they are enrolled in 2702 for HS credit.

0715205	Office Aide	7th Grade ONLY	Semester
0815205	Office Aide	8th Grade ONLY	Semester

Prerequisite: Application process

Students will receive experiences in various aspects campus office operations.

0715205	Teacher Aide	7th Grade ONLY	Semester
0815205	Teacher Aide	8th Grade ONLY	Semester

Prerequisite: Application process

Students will be scheduled with a teacher to assist in organization, word processing, filing, and other clerical duties.

0715202	Library Aide	7th Grade ONLY	Semester
0815202	Library Aide	8th Grade ONLY	Semester

Prerequisite: Application process

Student will receive experiences in various aspects in library operations.

0714201	Speech I (1/2 HS Credit)	7th Grade ONLY	Semester
0714202	Speech I (1/2 HS Credit)	7th Grade ONLY	

Students will learn about person, one-on-one, small group, and mass media communication. Oratory, small group discussions, and interviewing skills are stressed. Students learn persuasive and mass media techniques as well as the basics of media presentations, business communications and radio/tv broadcasting.

0714216	Skills for Living	7th Grade ONLY	Semester
0814216	Skills for Living	8th Grade ONLY	Semester

This is an activity based course providing students with practical information in the areas of personal development, family and community responsibilities, parent-child relationships, food and nutrition, clothing care and construction, housing, and career preparation. Students are required to apply academic learning toward the solutions of real- world responsibilities. This class is full of new and exciting information that you will find helpful during Middle School and high School as well as the rest of your life.

<u>NO.</u>	<u>COURSE</u>	<u>GRADE</u>	<u>CREDIT</u>
0703202	Accelerated Math Strategies	7th Grade ONLY	Semester
0803202	Accelerated Math Strategies	8th Grade ONLY	Semester

Prerequisite: Campus recommendation

The course is in addition to the grade level mathematics course. It is designed to assist students who have not performed well on the mathematics portion of STAAR. The course includes reviewing addition, subtraction, multiplication, and division; decimals; perfect squares; integers; mental math skills; estimation skills; and analysis of word problems.

0701202	Accelerated Reading Strategies	7th Grade ONLY	Semester
0801203	Accelerated Reading Strategies	8th Grade ONLY	Semester

Prerequisite: Campus recommendation

This course is in addition to the grade level language arts course. It is designed for students who are reading below grade level. The course provides for individualized instruction, including Read 180, to meet each student's unique need in decoding, fluency, vocabulary development and comprehension.

PROJECT LEAD THE WAY (PLTW)

PLTW students engage in hands-on activities, projects, and problems that are reflective of real-world challenges. This compelling real-world approach empowers students to learn essential, in-demand skills validated by the world's leading companies, while also providing an invaluable connection between what students are learning in the classroom today and how it applies to the paths they'll take in the future.

NO.	COURSE	GRADE	CREDIT
<u>PROJECT LEAD THE WAY (PLTW)</u>			
<u>GATEWAY TO TECHNOLOGY I:</u>			

DESIGN AND MODELING AND APP CREATORS (INNOVATIVE)

See Sequence of Courses:

<u>0613210 DESIGN AND MODELING</u>	6th - 8TH Grade	Semester
---	--	-----------------

Students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply what they've learned throughout the unit to design a therapeutic toy for a child who has cerebral palsy.

<u>0613200 APP CREATORS</u>	6th - 8th Grade	Semester
------------------------------------	--	-----------------

This unit exposes students to computer science as a means of computationally analyzing and developing solutions to authentic problems through mobile app development and conveys the positive impact of the application of computer science to other disciplines and to society.

PLTW GATEWAY TO TECHNOLOGY II: **AUTOMATION AND ROBOTICS AND CS FOR INNOVATORS AND MAKERS**

See Sequence of Courses

<u>0713200 AUTOMATION AND ROBOTICS</u>	7th - 8th Grade	Semester
---	--	-----------------

Students learn about the history and impact of automation and robotics as they explore mechanical systems, energy transfer, machine automation, and computer control systems. Using the VEX Robotics platform, students apply what they know to design and program traffic lights, robotic arms, and more.

<u>0713230 COMPUTER SCIENCE FOR INNOVATORS AND MAKERS</u>	7th-8th Grade	Semester
--	--	-----------------

Throughout the unit, students learn about programming for the physical world by blending hardware design and software development, allowing students to discover computer science concepts and skills by creating personally relevant tangible, and shareable projects.

PLTW GATEWAY TO TECHNOLOGY III: **DESIGN AND MODELING AND MEDICAL DETECTIVES**

See Sequence of Courses

<u>0813210 DESIGN AND MODELING</u>	7th-8th Grade	Semester
---	--	-----------------

Students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. They are then challenged and empowered to use and apply what they've learned throughout the unit to design a therapeutic toy for a child who has cerebral palsy.

0813220 MEDICAL DETECTIVES

7th-8th Grade

Semester

Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence found at a “crime scene.” They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health.

PLTW GATEWAY TO TECHNOLOGY IV:

APP CREATORS AND CS FOR INNOVATORS AND MAKERS

See Sequence of Courses

0813200 APP CREATORS

7th-8th Grade

Semester

This unit exposes students to computer science as a means of computationally analyzing and developing solutions to authentic problems through mobile app development and conveys the positive impact of the application of computer science to other disciplines and society.

0813230 COMPUTER SCIENCE FOR INNOVATORS AND MAKERS

7th-8th Grade Semester

Throughout the unit, students learn about programming for the physical world by blending hardware design and software development, allowing students to discover computer science concepts and skills by creating personally relevant tangible, and shareable projects.

CAREER AND TECHNICAL EDUCATION COURSES

In an effort to offer a thematic-based approach where students take a sequence of courses to receive specialized training in a particular career pathway, Duncanville ISD offers additional career courses at the middle school level. This approach adapts to the realities of a knowledge-based economy that requires complex critical thinking skills and applied learning. The goal for each course offered is to implement rigorous coursework, provide relevance of learning, and to develop business and industry relationships that enhance student learning. The career courses will fully integrate academic and technical skills that prepare students for postsecondary education, training, and productive entry into the workforce.

Additional CTE Career Courses

0713202 INVESTIGATING CAREERS

7th Grade Only

Semester

The goal of this course is to create a foundation for success in high school, future studies, and careers such as Science, Technology, Engineering, and Mathematics; Business and Industry; Public Service; Arts and Humanities; and Multidisciplinary Studies. The students research labor market information, learn job-seeking skills, and create documents required for employment.

0713203 COLLEGE AND CAREER READINESS

7th Grade

Semester

The career development process is unique to every person and evolves throughout one's life. Students will use decision-making and problem-solving skills for college and career planning. Students will explore valid, reliable educational and career information to learn more about themselves and their interests and abilities. Students integrate skills from academic subjects, information technology, and interpersonal communications to make informed decisions. This course is designed to guide students through the process of investigation and in the development of a college and career readiness achievement plan. Students will use interest inventory software or other tools available to explore college and career areas of personal interest. Students will use this information to explore educational requirements for various colleges and a variety of chosen career paths.

0813204 HIGH SCHOOL CAREER PREPARATION

8th Grade

Full Year

This course is designed to help students strengthen decision-making skills in order to assist them with career choices. Students will have the opportunity to become acquainted with the process for locating and securing employment. Topics include career planning, acquiring productive work habits, and choosing a career in relation to one's lifestyle. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning. Upon completion, high school credit will be awarded for Money Matters.

13PC002 PROFESSIONAL COMMUNICATIONS

8th Grade Only

Semester

1/2 HS Credit

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. Upon completion high school credit will be awarded for Professional Communications. Upon completion of this course, students will receive ½ high school elective credit for Professional Communication.

<u>13BIM02 BUSINESS INFORMATION MANAGEMENT I</u>	8th Grade	Full Year
1 HS Credit		

13AAV02 PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY, and COMMUNICATIONS		
1 HS Credit	8 th Grade	Full Year

13GOV02 PRINCIPLES OF GOVERNMENT and PUBLIC ADMINISTRATION
1 HS Credit 8th Grade Full Year

29

FINE ARTS ELECTIVES – BAND AND CHOIR

NO.	COURSE	GRADE	CREDIT
0710203	SYMPHONIC BAND I	7th Grade	Full Year

The Symphonic Band I is an advanced performing group with preparation for the high school band program as a primary objective. Students will perform at concerts and contests throughout the school year. Students will have the opportunity to perform at the solo and ensemble contests provided they have met the eligibility requirements. Instrumentation is limited to those showing advanced performance abilities and superior attitudes. Members are selected by audition and must meet the minimum requirements for performance Level III.

0810204	SYMPHONIC BAND I	8th Grade	Full Year
----------------	-------------------------	------------------	------------------

The Symphonic Band I is an advanced performing group with preparation for the high school band program as a primary objective. Students will perform at concerts and contests throughout the school year. Students will also have the opportunity to perform at the solo and ensemble contests provided they have met the eligibility requirements. Instrumentation is limited to those who show advanced performance abilities and superior attitudes. Members are selected by audition and must meet the minimum requirements for performance Level III.

0710204	SYMPHONIC BAND II	7th Grade	Full Year
----------------	--------------------------	------------------	------------------

The Symphonic Band II is an advanced performing group with preparation for Symphonic Band I and high school band program. Students will perform at concerts and contests throughout the school year. Students will have the opportunity to perform at the solo and ensemble contests provided they have met the eligibility requirements. Instrumentation is limited to those showing advanced performance abilities and superior attitudes. Members are selected by audition and must meet the minimum requirements for performance Level III.

0810205	SYMPHONIC BAND II	8th Grade	Full Year
----------------	--------------------------	------------------	------------------

The Symphonic Band II is an advanced performing group with preparation for Symphonic Band I and high school band program as a primary objective. Students will perform at concerts and contests throughout the school year. Students will have the opportunity to perform at the solo and ensemble contests provided they have met the eligibility requirements. Instrumentation is limited to those who show advanced performance abilities and superior attitudes. Members are selected by audition and must meet the minimum requirements for performance Level III.

0710205	SYMPHONIC BAND III	7th Grade	Full Year
----------------	---------------------------	------------------	------------------

The Instrumental Music class is a non-performing class designed to continue the musical growth of its members. Students may enter the solo and the ensemble contest provided they have met the academic requirements and are selected by the directors to perform. Students will have opportunities to perform as guest members of Symphonic II, provided they have mastered all current objectives. Members are selected by audition and must meet the minimum requirements for performance Level I.

0810206	SYMPHONIC BAND III	8th Grade	Full Year
----------------	---------------------------	------------------	------------------

The Instrumental Music class is a non-performing class designed to continue the musical growth of its members. Students may enter the solo and the ensemble contest provided they have met the academic requirements and are selected by the directors to perform. Students will have opportunities to perform as guest members of Symphonic II, provided they have mastered all current objectives. Members are selected by audition and must meet the minimum requirements for performance Level I.

NO.	COURSE	GRADE	CREDIT
0710206	GIRLS SELECT CHOIR	7th Grade	Full Year
Prerequisite: Choir Director Approval			

Selection for this choir is based on an audition. During the year, this group will be periodically combined with the boys' choir to form a mixed choir for concerts, competitions, and community events.

0810207	GIRLS SELECT CHOIR	8th Grade	Full Year
Prerequisite: Choir Director Approval			

Selection for this choir is based on an audition. During the year, this group will be periodically combined with the boys' choir to form a mixed choir for concerts, competitions, and community event.

0710207	GIRLS HONOR CHOIR	7th Grade	Full Year
Prerequisite: Choir Director Approval			

Selection for this choir is based on audition. This choir will consist of 7th and 8th grade girls. This choir performs and competes in all concerts and contests.

0810208	GIRLS HONOR CHOIR	8th Grade	Full Year
Prerequisite: Choir Director Approval			

Selection for this choir is based on audition. This choir will consist of 7th and 8th grade girls. This choir performs and competes in all concerts and contests.

0710208	GENERAL MUSIC	7th Grade	Semester
Prerequisite: Choir Director Approval (No Prerequisite)			

This class is open to all students interested in learning more about music. This is not a performing class. This class will study a variety of music topics.

0810209	GENERAL MUSIC	8th Grade	Semester
----------------	----------------------	------------------	-----------------

This class is open to all students interested in learning more about music. This is not a performing class. This class will study a variety of music topics.

0710210	BOYS CHOIR	7th Grade	Full Year
----------------	-------------------	------------------	------------------

Selection for this choir is based on an audition. During the year, this group will be periodically combined with the girls' choir to form a mixed choir for concerts, competitions, and community events.

0810211	BOYS CHOIR	8th Grade	Full Year
Prerequisite: Choir Director Approval			

Selection for this choir is based on an audition. During the year, this group will be periodically combined with the girls' choir to form a mixed choir for concerts, competitions, and community events.

PHYSICAL EDUCATION/ ATHLETICS

All students must complete two semesters of physical education in middle school. It is recommended that this requirement be completed in the 7th grade. Athletics will substitute for the physical education requirement. However, please check with your counselor concerning specific requirements for the different sports.

NO.	COURSE	GRADE	CREDIT
0708201 (7th)	PHYSICAL EDUCATION	7th Grade	Full Year
0808201 (8th)	PHYSICAL EDUCATION	8th Grade	Full Year

Students in this course will acquire the knowledge and skills for movement that provide the foundation for enjoyment and continued social development through physical activity. Students will learn specialized skills and concepts that lead to confidence and competency in a variety of physical activities. Physical activity will include lessons from team sports, individual sports, aerobic sports and adventure outdoor sports.

0708202	Athletics Boys	7th Grade	Full Year
----------------	-----------------------	-----------------------------	------------------

The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval.

By signing up for first semester boy's athletics, students will be enrolled in football/basketball. Students intending on trying out for basketball and/or track only and not playing football need to sign up for boys athletics and indicate on their choice sheet their intention to try out by writing "basketball only," "track only," or "basketball/track only." Boys' basketball tryouts will occur at the end of football season. Track tryouts will be in the spring.

0708205	Athletics Girls	7th Grade	Full Year
----------------	------------------------	-----------------------------	------------------

The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval.

By signing up for first semester girl's athletics, students will be enrolled in volleyball/basketball. Students intending on trying out for basketball and/or track only and not playing volleyball need to sign up for girls athletics and indicate on their choice sheet their intention to try out by writing "basketball only," "track only," or "basketball/track only." Girls' basketball tryouts will occur at the end of volleyball season. Track tryouts will be in the spring.

<u>NO.</u>	<u>COURSE</u>	<u>GRADE</u>	<u>CREDIT</u>
0708207	Tennis	7th – 8th Grade	Full Year
The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season, who wishes to participate in athletics will not be placed in athletics without the coaches' approval. Tryouts for tennis will be held at the start of the school year.			

0808202	Athletics Boys	8th Grade	Full Year
The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval.			

By signing up for first semester boys' athletics, students will be enrolled in football/basketball. Students intending on trying out for basketball and/or track only and not playing football need to sign up for boys athletics and indicate on their choice sheet their intention to try out by writing "basketball only," "track only," or "basketball/track only." Boys' basketball tryouts will occur at the end of football season. Track tryouts will be in the spring.

0808205	Athletics Girls	8th Grade	Full Year
The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season, who wishes to participate in athletics will not be placed in athletics without the coaches' approval.			

By signing up for first semester girls' athletics, students will be enrolled in volleyball/basketball. Students intending on trying out for basketball and/or track only and not playing volleyball need to sign up for girls athletics and indicate on their choice sheet their intention to try out by writing "basketball only," "track only," or "basketball/track only." Girls' basketball tryouts will occur at the end of volleyball season. Track tryouts will be in the spring.

*** Off campus Sports-Parent will transport to high school and school bus will transport to home campus.

0708203 (7th) Golf ***	7th- 8th Grade	Full Year
0808203 (8th)		
The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval. Golf is an off campus sport. Parents will be required to transport their student to the high school at a time specified by the head coach of the sport and a school bus will transport the student to their middle school campus after practice each day. Tryouts for golf will be held at the start of the school year.		

0708201 (7th)	Swim***	7th-8th Grade	Full Year
0808201 (8th)			
The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval. Swimming is an off campus sport. Parents will be required to transport their student to the high school at a time specified by the head coach of the sport and a school bus will transport the student to their middle school campus after practice each day. Tryouts for swimming will be held at the start of the school year.			

NO.	COURSE	GRADE	CREDIT
-----	--------	-------	--------

0708203 (7th) Baseball* 7th-8th Grade Full Year**
0808203 (8th)

The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval. Baseball is an off campus sport. Parents will be required to transport their student to the high school at a time specified by the head coach of the sport and a school bus will transport the student to their middle school campus after practice each day. Tryouts for baseball will be held at the start of the school year.

0708203 (7th) Softball* 7th-8th Grade Full Year**
0808203 (8th)

The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval. Softball is an off campus sport. Parents will be required to transport their student to the high school at a time specified by the head coach of the sport and a school bus will transport the student to their middle school campus after practice each day. Tryouts for Softball will be held at the start of the school year.

0708201 (7th) Cross Country 7th-8th Grade Full Year
0808201 (8th)

The athletics program is based on improving basic skills, setting and attaining goals, self-discipline, and desirable social behavior. Students wishing to play any of the athletic sports are required to have an athletic physical by a doctor and complete the athletic paperwork requirements. Any student moving into the district mid-season who wishes to participate in athletics will not be placed in athletics without the coaches' approval. Cross Country is an on campus sport. Tryouts for Cross Country will be held at the start of the school year.

All students must complete two semesters of physical education in middle school. It is recommended that this requirement be completed in the 7th grade. Athletics will substitute for the physical education requirement. However, please check with your counselor concerning specific requirements for the different sports.

****By signing up for first semester boy's athletics, students will be enrolled in football/basketball. Students intending on trying out for basketball and/or track only and not playing football need to sign up for physical education and indicate on their choice sheet their intention to try out by writing "basketball only," "track only," or "basketball/track only." Boys' basketball tryouts will occur at the end of football. Boys who make the team will be transferred into boy's athletic period.**

***** Off campus Sports-Parent will transport to high school and school bus will transport to home campus.**

0714217 (7th) CHEER CLASS 7TH – 8th Grade Full Year
0814217 (8th)

Prerequisite: Tryouts required.

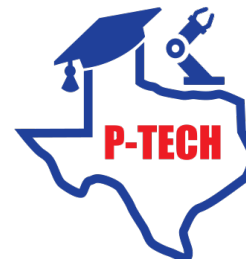
The primary purpose of cheer class is to learn the importance of teamwork and promote school spirit and pride.



*You're Going to Love
Our Stories at DHS*



**TEXAS
SCIENCE,
TECHNOLOGY,
ENGINEERING &
MATH**



**PATHWAYS IN
TECHNOLOGY
EARLY COLLEGE
HIGH SCHOOL**

**DUAL ENROLLMENT &
DUAL CREDIT**
for High School Students

P-TECH & T-STEM PROGRAMS

EARN CREDENTIALS. EARN A LIVING.



ARCHITECTURAL DESIGN P-TECH

- Associate of Applied Science in Computer-Aided Design & Drafting and 2 certificates
- Industry-recognized certifications in AutoCAD, Revit, Inventor & Solidworks

\$55,810

Median annual salary for
Architectural & Civil
Drafters in the DFW region



AUTOMOTIVE TECHNOLOGY P-TECH

- Chassis Service Technician Certificate
- Several industry-recognized certifications

\$45,070

Median annual salary for
Automotive Service
Technicians & Mechanics
in the DFW region

**COLLEGE CREDITS. INDUSTRY CREDENTIALS.
WORK-BASED LEARNING.**



EDUCATION & TRAINING P-TECH

- Associate of Arts in Teaching
- Educational Aide I certification
- Can transfer to UNT Dallas & earn a B.S. in Interdisciplinary Studies with Bilingual Certification

\$58,020

Median annual salary for
Elementary School
Teachers in the DFW
region



ENGINEERING T-STEM

- Advanced Manufacturing/Mechatronics Technology Certificate

\$61,580

Median annual salary for
Electronics Engineering
Technologists in the DFW
region



DUNCANVILLE HIGH SCHOOL

Architectural Design P-TECH

SAMPLE GRADUATION PLAN

DALLAS COLLEGE DEGREES & CERTIFICATES:

-  **Associate of Applied Science in Computer-Aided Design & Drafting**
-  **Computer-Aided Design Operator Certificate**
-  **Architectural Drafting Certificate**

66

College Credit Hours

3

College Credentials



Multiple Industry-based Certifications



Business & Industry Endorsement

9TH GRADE

- | | | |
|--|--|---|
| <input type="checkbox"/> English I | <input type="checkbox"/> Health/PE | <input type="checkbox"/> Principles of Architecture DC (ARCE 1421) |
| <input type="checkbox"/> Algebra I or Geometry | <input type="checkbox"/> World Geography or AP Human Geography | |
| <input type="checkbox"/> Biology | | |

10TH GRADE

- | | | |
|--|---|---|
| <input type="checkbox"/> English II | <input type="checkbox"/> Spanish I | <input type="checkbox"/> Architectural Design I DC (DFTG 1409, 1445, 1315) |
| <input type="checkbox"/> Geometry or Algebra II | <input type="checkbox"/> Speech DC (SPCH 1311) | |
| <input type="checkbox"/> World History | <input type="checkbox"/> Psychology DC (PSYC 2301) | <input type="checkbox"/> Principles of Information Technology DC (ITSC 1401) |
| <input type="checkbox"/> IPC, Chemistry or Physics | | |

11TH GRADE

- | | | |
|--|---|---|
| <input type="checkbox"/> English III | <input type="checkbox"/> Spanish II | <input type="checkbox"/> Pre-Calculus DC (Math 1314, 1316) |
| <input type="checkbox"/> U.S. History | <input type="checkbox"/> Advanced Architectural Design II DC (DFTG 1417, 2419, 2380) | <input type="checkbox"/> Art Appreciation (Arts 1301) |
| <input type="checkbox"/> Advanced Science Credit | | |

12TH GRADE

- | | | |
|---|--|--|
| <input type="checkbox"/> English IV DC (ENGL 1301, 1302) | <input type="checkbox"/> U.S. Government | <input type="checkbox"/> Practicum in Architectural Design DC (DFTG 2431, 2321, 2428, 2438) |
| <input type="checkbox"/> Advanced Math Credit | <input type="checkbox"/> Economics | |
| | <input type="checkbox"/> Advanced Science Credit | |

This is a sample graduation plan. Students will work with counselors and P-TECH/T-STEM instructors to schedule their courses according to their unique needs. This plan is based on high school graduation requirements and Dallas College course requirements, which are subject to change. Courses in **bold** are dual credit courses. For more resources, visit us at duncanvilleisd.org/ptech and on Twitter @dvilleCTE.





DUNCANVILLE HIGH SCHOOL

Education & Training P-TECH

SAMPLE GRADUATION PLAN

DALLAS COLLEGE DEGREES & CERTIFICATES:



Associate of Arts in Teaching

Continue on to UNT Dallas to earn a Bachelor of Science in Interdisciplinary Studies with Texas teacher certification in Early Childhood-6th grade and supplemental certification in Bilingual Education

60

College Credit Hours



Transfer Pathway to UNT Dallas



Educational Aide I Certification



Public Services Endorsement

9TH GRADE

- | | | |
|--|--|---|
| <input type="checkbox"/> English I | <input type="checkbox"/> Biology | <input type="checkbox"/> Principles of Education & Training DC (EDUC 1300) |
| <input type="checkbox"/> Algebra I or Geometry | <input type="checkbox"/> World Geography or AP Human Geography | <input type="checkbox"/> Music Appreciation (MUSI 1306) |
| <input type="checkbox"/> Spanish I | | |

10TH GRADE

- | | | |
|--|---|--|
| <input type="checkbox"/> English II | <input type="checkbox"/> Spanish II | <input type="checkbox"/> Intro to Physical Fitness & Wellness (PHED 1164) |
| <input type="checkbox"/> Geometry or Algebra II | <input type="checkbox"/> Speech DC (SPCH 1311) | |
| <input type="checkbox"/> World History | <input type="checkbox"/> Human Growth & Development DC (EDUC 1301) | |
| <input type="checkbox"/> IPC, Chemistry or Physics | | |

11TH GRADE

- | | | |
|--|--|---|
| <input type="checkbox"/> Economics | <input type="checkbox"/> Instructional Practices in Education & Training DC (TECA 1354) | <input type="checkbox"/> Pre-Calculus DC (Math 1314) |
| <input type="checkbox"/> English III DC (ENGL 1301, 1302) | <input type="checkbox"/> U.S. History DC (HIST 1301, 1302) | |

12TH GRADE

- | | | |
|--|--|---|
| <input type="checkbox"/> English IV DC (ENGL 2332) | <input type="checkbox"/> Biology DC (BIOL 2406) | <input type="checkbox"/> Practicum in Education & Training DC (TECA 1311 or 1301, EDUC 2301) |
| <input type="checkbox"/> Indep Study in Mathematics (MATH 1350, 1351) | <input type="checkbox"/> Geology DC (GEOL 1401) | <input type="checkbox"/> U.S. Government DC (GOVT 2305, 2306) |

This is a sample graduation plan. Students will work with counselors and P-TECH/T-STEM instructors to schedule their courses according to their unique needs. This plan is based on high school graduation requirements and Dallas College course requirements, which are subject to change. Courses in **bold** are dual credit courses. For more resources, visit us at duncanvilleisd.org/ptech and on Twitter @dvilleCTE.





DUNCANVILLE HIGH SCHOOL

Automotive Technology P-TECH

SAMPLE GRADUATION PLAN

DALLAS COLLEGE DEGREES & CERTIFICATES:



Chassis Service Technician Certificate



Multiple Industry-
based
Certifications

15

College Credit
Hours



Hands-on
Training



Business & Industry
Endorsement

9TH GRADE

- | | | |
|--|--|--|
| <input type="checkbox"/> English I | <input type="checkbox"/> Biology | <input type="checkbox"/> Health/PE |
| <input type="checkbox"/> Algebra I or Geometry | <input type="checkbox"/> World Geography or AP Human Geography | <input type="checkbox"/> Automotive Basics DC (AUMT 1305) |

10TH GRADE

- | | | |
|---|--|--|
| <input type="checkbox"/> English II | <input type="checkbox"/> Spanish I | <input type="checkbox"/> Automotive Technology I DC (AUMT 1307, 1310) |
| <input type="checkbox"/> Geometry or Algebra II | <input type="checkbox"/> Fine Arts | |
| <input type="checkbox"/> World History | <input type="checkbox"/> IPC, Chemistry or Physics | |

11TH GRADE

- | | | |
|---|--|---|
| <input type="checkbox"/> English III | <input type="checkbox"/> Advanced Science Credit | <input type="checkbox"/> Automotive Technology II DC (AUMT 1316) |
| <input type="checkbox"/> Advanced Math Credit | <input type="checkbox"/> Spanish II | |
| <input type="checkbox"/> U.S. History | | |

12TH GRADE

- | | | |
|--|--|--|
| <input type="checkbox"/> Advanced English Credit | <input type="checkbox"/> Advanced Science Credit | <input type="checkbox"/> Economics |
| <input type="checkbox"/> Advanced Math Credit | <input type="checkbox"/> U.S. Government | <input type="checkbox"/> Practicum in Transportation Systems DC (AUMT 2380) |

This is a sample graduation plan. Students will work with counselors and P-TECH/T-STEM instructors to schedule their courses according to their unique needs. This plan is based on high school graduation requirements and Dallas College course requirements, which are subject to change. Courses in **bold** are dual credit courses. For more resources, visit us at duncanvilleisd.org/ptech and on Twitter [@edvilleCTE](https://twitter.com/edvilleCTE).





DUNCANVILLE HIGH SCHOOL

Engineering T-STEM

SAMPLE GRADUATION PLAN

DALLAS COLLEGE DEGREES & CERTIFICATES:



Advanced Manufacturing/Mechatronics
Technology Certificate

16

College Credit
Hours



Dual Credit
Courses at Dallas
College Mountain
View Campus



Work-based
Learning
Experiences



STEM Endorsement

9TH GRADE

- | | | |
|--|--|--|
| <input type="checkbox"/> English I | <input type="checkbox"/> World Geography or AP Human Geography | <input type="checkbox"/> Health/PE |
| <input type="checkbox"/> Algebra I or Geometry | <input type="checkbox"/> Spanish I | <input type="checkbox"/> Principles of Applied Engineering |
| <input type="checkbox"/> Biology | | |

10TH GRADE

- | | | |
|---|--|--|
| <input type="checkbox"/> English II | <input type="checkbox"/> Spanish II | <input type="checkbox"/> Engineering Design & Presentation I |
| <input type="checkbox"/> Geometry or Algebra II | <input type="checkbox"/> Fine Arts | |
| <input type="checkbox"/> World History | <input type="checkbox"/> IPC, Chemistry or Physics | |

11TH GRADE

- | | | |
|---|--|---|
| <input type="checkbox"/> English III | <input type="checkbox"/> Advanced Science Credit | <input type="checkbox"/> Engineering Design and Presentation II DC (MFGT 1404, 1406) |
| <input type="checkbox"/> Advanced Math Credit | <input type="checkbox"/> U.S. History | |

12TH GRADE

- | | | |
|--|--|---|
| <input type="checkbox"/> Advanced English Credit | <input type="checkbox"/> U.S. Government | <input type="checkbox"/> Practicum in STEM DC (MFGT 2459, ELPT 2419) |
| <input type="checkbox"/> Advanced Math Credit | <input type="checkbox"/> Economics | |

This is a sample graduation plan. Students will work with counselors and P-TECH/T-STEM instructors to schedule their courses according to their unique needs. This plan is based on high school graduation requirements and Dallas College course requirements, which are subject to change. Courses in **bold** are dual credit courses. For more resources, visit us at duncanvilleisd.org/ptech and on Twitter [edvilleCTE](#).



Duncanville Early College High School

Four Year Plan – Class of 2023 only

State of Texas Distinguished Level of Achievement and Mountain view College's Associate of Arts

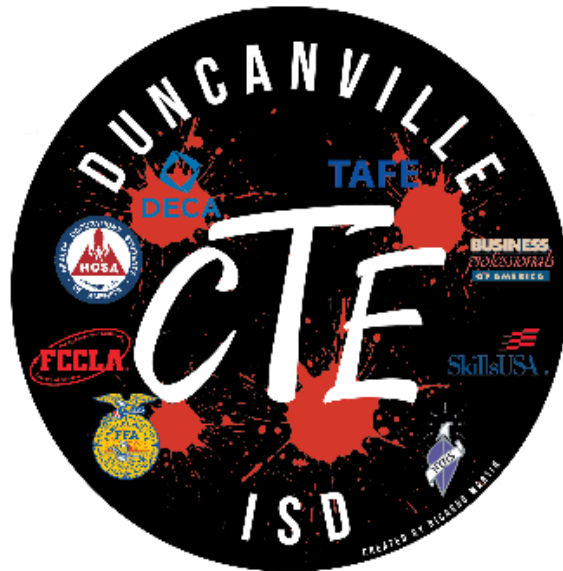
Duncanville HS Endorsement: Multidisciplinary * Students may be able to earn additional endorsements

*This form may vary by student

9th Grade		10th Grade	
<ul style="list-style-type: none">• English 1 or English 2 (H)• Algebra 1 or Geometry (H)• Biology (H)• Human Geography (AP)• Spanish 1 or Spanish 2 DC/ French 1 or 2• PE• Methodologies and Personal Skills (ECHS)• Elective (MVC Course) <p>MCV Courses for ECHS EDUC 1300/ PHED 1304 ITSC 1401/SPCH 1311</p>		<ul style="list-style-type: none">• English 2 (H) or English 3 (AP)• Algebra 2 (H) or Geometry• Chemistry (H)• World History (AP)• Spanish 2 DC/French 2 or 3 or Elective• Elective• Elective (MVC Course)• Elective (MVC Course) <p>MVC Courses for ECHS ARTS 1301/MUSI 1301 BMGT 1327/MRKG 1311 PSYC 2301/SOCI 1301</p>	
Total HS Credits: 8 MCV Credit Hours: 12 (ECHS)		Total HS Credits: 8 MVC Credit Hours: 12 (ECHS)	
11th Grade		12th Grade	
<ul style="list-style-type: none">• Algebra 2 (Pre-AP)/ Geometry or Pre-Calculus (H)• Physics (AP)• Electives• AP Language (Some students – English 3 credit) <p>MVC Courses for ECHS ENGL 1301/1302* (English 3 credit) MATH 1314/1316 HIST 1301/1302 (US History credit) PHIL 1301/HUMA 1302 <i>*If you take AP Language, you will still need ENGL 1301 & ENGL 1302 for your CVC degree</i></p>		<ul style="list-style-type: none">• Pre-Calculus or Advanced Quantitative Reasoning• Economics• AP Literature or ENGL 2327/2328• Electives <p>MVC Courses for ECHS ENGL 1301/1302* (English 3 credit) ENGL 2327/2328 (English 4 credit) MATH 1314/1316 BIOL 1406/1408 or BIOL 1407/1409 PHYS 1401/1405 or CHEM 1405/1411 GOVT 2305/2306</p>	
Total HS Credits: 8 CVC Credit Hrs: 22 (ECHS)		Total HS Credits: 8 CVC Credit Hours ≠ of credits will vary	
Total High School Credits: 32			
Minimum number of credits required to graduate from high school = 28 26 Verify graduation requirement progress every semester using high school transcript and credit check sheet			
Total CVC Hours: 60			
Verify degree progress every semester using CVC Program of Study			

Duncanville High School Dual Credit Program





Mission Statement:

The mission of Duncanville ISD Career and Technical Education Department is to empower students by providing them the rigorous and relevant instruction, along with real world experiences that prepare them for college, careers, and participation in the 21st century workforce.

Vision Statement:

The Duncanville ISD Career and Technical Education vision is to create a district wide culture where students can select and pursue career pathways to develop the needed skills to prepare them for post-secondary education and the world of work.

Program Goals:

Industry Certifications: A goal of our CTE Program is to give students the ability to gain industry-recognized credentials while still in high school. Student certifications are available in all CTW cluster areas. These certifications and/or licenses can provide the student with credentials that will benefit them in obtaining employment in a related field or acceptance into a post-secondary education. Some certifications may be obtained at no cost to the student; some may require the payment of fees by the student.

Work-based Opportunities:

Practicum Courses provide opportunities for students to participate in a learning experience that combines classroom instruction with paid and non-paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders.

Career and Technical Student Organizations Involvement:

CTSOs are integrated into Career and Technical Education programs and courses. CTSOs extend teaching and learning through innovative programs and provide students leadership experiences at the school, state and national levels. CTSOs offer learning experience opportunities with business and community partners. CTSOs offered: BPA, FBLA, FCCLA, DECA, HOSA Skills USA, TSA, and VEX Robotics.

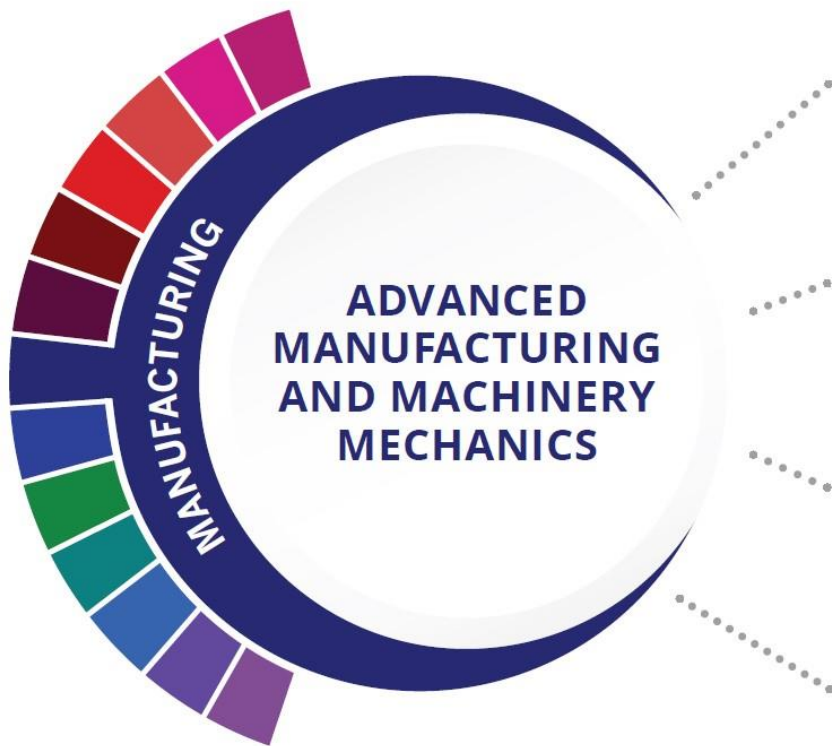
Personal Graduation Plan

A Personal Graduation Plan (PGP) is to be developed for each student currently enrolled in junior high, middle school, or high school. A personal graduation plan must:

1. Identify education/ career goals for the student
2. Include diagnostic information, appropriate monitoring and intervention, and other evaluation strategies
3. Include an intensive program of instruction
4. Address participation of the student's parent or guardian, including considerations of the parent's or guardian's education expectation for the student
5. Provide innovative methods to promote the student's achievement
6. Discuss certification and licensures with student and parent or guardian

For students receiving special education services an individualized education plan may be used as the student's Personal Graduation Plan.





Level 1 Principles of Applied Engineering

Level 2 Engineering Design and Presentation I
Robotics I

Level 3 Robotics II

Level 4 Practicum in Engineering
Manufacturing Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
FANUC Robot Operator 1	Engineer, Professional	Electro-mechanical Engineering/Technology	Electrical Engineering	Electrical Engineering
Mastercam Associate Level Certification	Certified Quality Technician	Certified Quality Technician	Industrial Engineering	Industrial Engineering
NCCER Industrial Maintenance Mechanic	Plant Maintenance Technologist	Industrial Mechanics and Maintenance Technology	Mechanical Engineering	Mechanical Engineering
NIMS Industrial Technology Maintenance - Maintenance Operations				

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:	Work Based Learning Activities:
Participate in SkillsUSA and local STEM events	Apprenticeship at a local business or industry American Welding Society

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

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



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

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



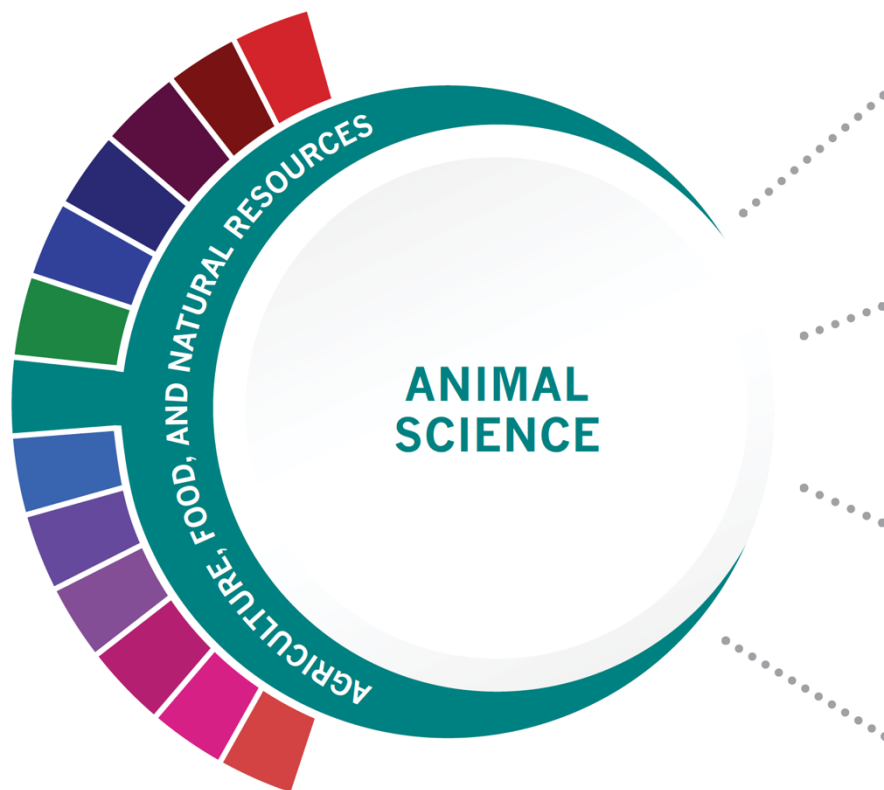
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITS (CREQ)	Grade
Principles of Manufacturing	13032200 (1 credit)	None	9-12
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Principles of Applied Engineering	13036200 (1 credit)	None	9-10
Engineering Design and Presentation I	13036500 (1 credit)	PREQ: Algebra I	10-12
Occupational Safety and Environmental Technology II	N1303681 (1 credit)	None	9-12
Manufacturing Engineering Technology I	13032900 (1 credit)	None	10-12
Robotics I	13037000 (1 credit)	None	9-10
Programmable Logic Controller I	N1303689 (1 credit)	None	10-12
Manufacturing Engineering Technology II	13032950 (1 credit)	PREQ: Manufacturing Engineering Technology I	11-12
Robotics II	13037050 (1 credit)	PREQ: Robotics I	10-12
Programmable Logic Controller II	TBD	TBD	TBD
Practicum in Manufacturing	13033000 (2 credits) 13033005 (3 credits) 13033010 (2 credits) 13033015 (3 credits)	None	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE MANUFACTURING CAREER CLUSTER, PLEASE CONTACT:

Jennifer Bullock | Jennifer.Bullock@tea.texas.gov

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



Principles of Agriculture, Food, and Natural Resources

Level 1

Level 2

Livestock Production

Level 3

Veterinary Medical Applications
Practicum in Agriculture, Food, and Natural Resources
Project-Based Research

Level 4

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

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

Occupations	Median Wage	Annual Openings	% Growth
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:	Work Based Learning Activities:
SkillsUSA	4H Volunteer at a local farm or veterinary office Intern at a Feed Store or the Dallas SPCA

The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches CTE learners how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.



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

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

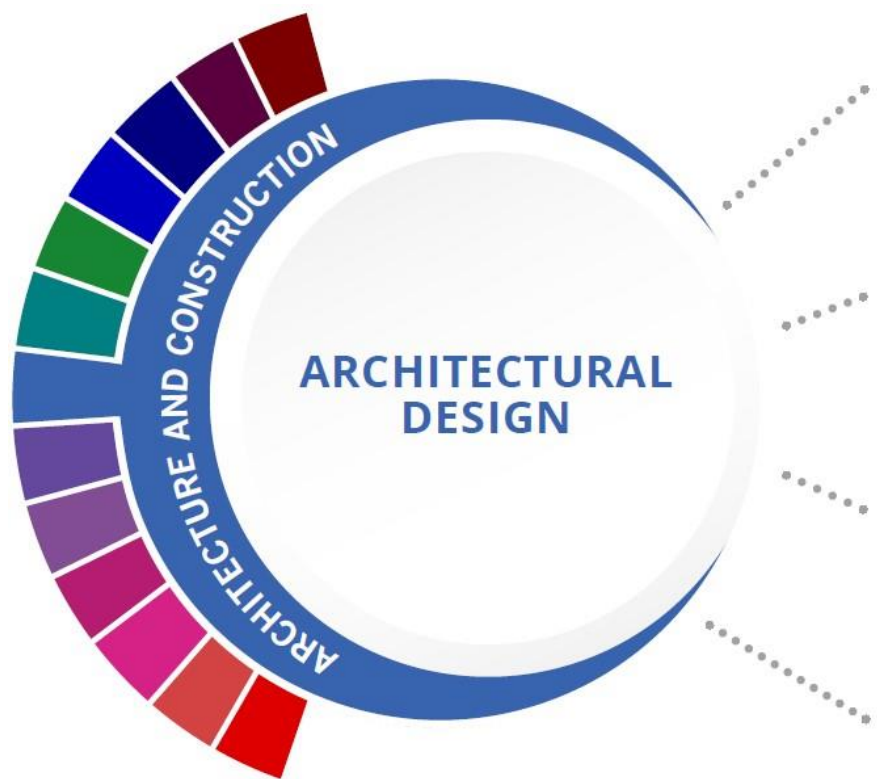
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	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/Lab	13000300 (1 credit) 13000310 (2 credits)	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) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	11-12
Project-Based Research	12701500 (1 credit)	None	11-12
Scientific Research and Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCE CAREER CLUSTER, PLEASE CONTACT:

Les Hudson | Les.Hudson@tea.texas.gov

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

**Level 1****Level 2**

Architectural Design I
Interior Design I

Level 3

Architectural Design II
Interior Design II
Civil Engineering and Architecture
(PLTW)

Level 4

Practicum in Architectural Design
Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Autodesk Certified Professional or User in AutoCAD	Certified Photogrammetric Technologist	Architecture	Architecture	Architecture
	Certified Development, Design & Construction Professional	Interior Design	Interior Design	Interior Architecture
Autodesk Certified Professional or User in Autodesk Revit Architecture	National Council Certified Interior Designer	Civil Engineering, General	Civil Engineering, General	Civil Engineering, General
Level I Certificate at Dallas College in Architectural Drafting	LEED AP Building Design & Construction	Geographic Information Science and Cartography	Geographic Information Science and Cartography	Geographic Information Science and Cartography

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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

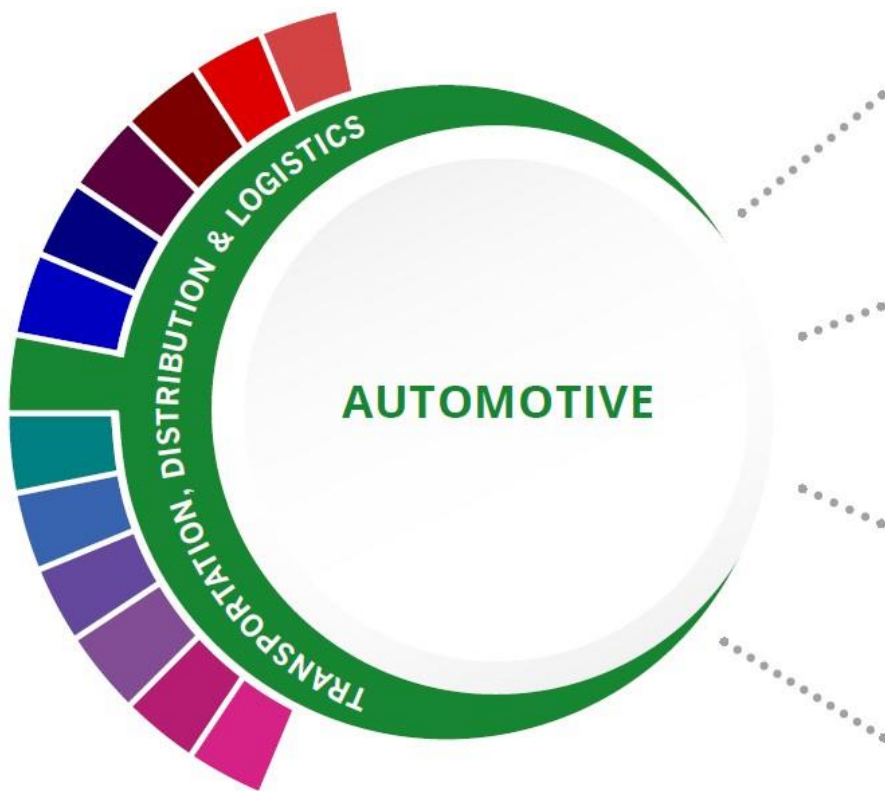
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (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
Computer Aided Drafting for Architecture	N1300429 (1 credit)	None	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
Civil Engineering and Architecture (PLTW)	N1303747 (1 credit)	None	9-12
Practicum in Architectural Design	13004800 (2 credits) 13004805 (3 credits) 13004810 (2 credits) 13004815 (3 credits)	PREQ: Architectural Design II	12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:

Les Hudson | Les.Hudson@tea.texas.gov

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



Level 1

Level 2 Automotive Basics

Level 3 Automotive Technology I

Level 4 Automotive Technology II/Lab Practicum in Transportation Systems Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Automotive Service Excellence (ASE) Entry Level				Mechanical Engineering
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: various systems and parts	Medium/Heavy Vehicle and Truck Technology/ Technician		
	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician	Mechanical Engineering/ Mechanical Technology/ Technician	

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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

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



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

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



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Transportation Systems	13039250 (1 credit)	None	9-12
Small Engine Technology I	13040000 (1 credit)	None	9-12
Basic Collision Repair and Refinishing	13039750 (1 credit)	None	9-12
Automotive Basics	13039550 (1 credit)	None	9-12
Introduction to Transportation Technology	13039270 (.5 credit)	None	9-10
Small Engine Technology II	13040100 (2 credits)	PREQ: Small Engine Technology I	10-12
Collision Repair/Lab	13039800 (2 credits) 13039810 (3 credits)	None	10-12
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Automotive Technology I: Maintenance and Light Repair	13039600 (2 credits)	None	9-12
Energy and Power of Transportation Systems	13039300 (1 credit)	None	10-12
Paint and Refinishing/Lab	13039900 (2 credits) 13039910 (3 credits)	None	10-12
Automotive Technology II/Lab	13039700 (2 credits) 13039710 (3 credits)	PREQ: Automotive Technology I: Maintenance and Light Repair	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

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



Level 1 Principles of Business, Marketing, and Finance
Business Information Management I

Level 2 Business Law
Business Information Management II

Level 3 Business Management

Level 4 Practicum in Business Management
Career Preparation I

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

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

Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Operations Research Analysts	\$78,083	1,128	38%
Supervisors of Administrative Support Workers	\$57,616	14,982	20%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

The Business Management program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods



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

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



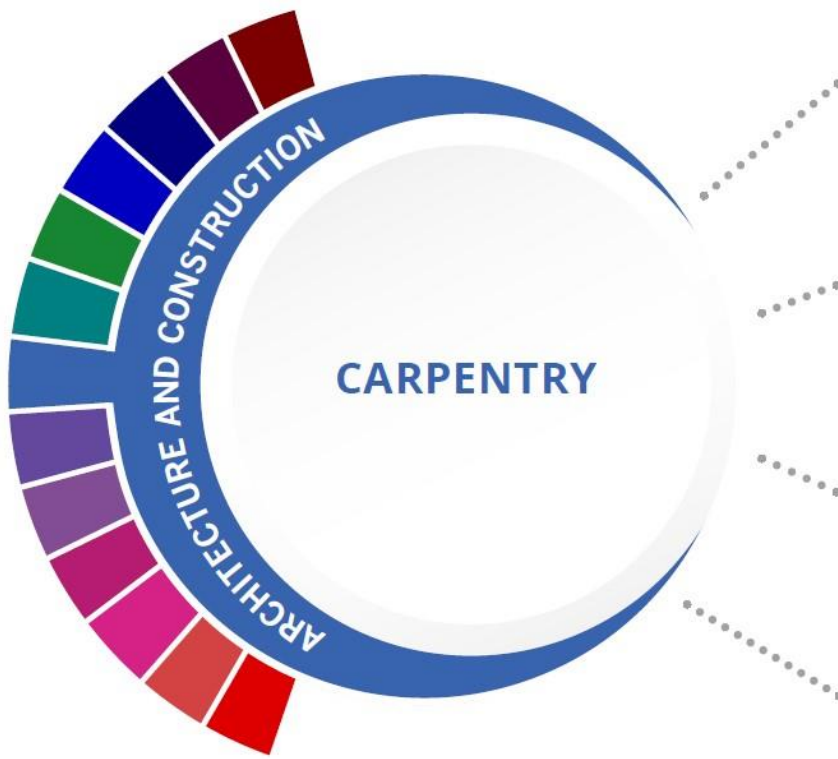
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITS (CREQ)	Grade
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Business Information Management I/Lab	13011400 (1 credit) 13011410 (2 credits)	None	9-12
Business Law	13011700 (1 credit)	None	11-12
Virtual Business	13012000 (.5 credit)	None	10-12
Business Information Management II/Lab	13011500 (1 credit) 13011510 (2 credits)	PREQ: Business Information Management I	10-12
Business Management	13012100 (1 credit)	None	10-12
Global Business	13011800 (.5 credit)	None	10-12
Human Resources Management	13011900 (.5 credit)	None	11-12
Statistics and Business Decision Making	13016900 (1 credit)	PREQ: Algebra II	11-12
Practicum in Business Management	13012200 (2 credits) 13012205 (3 credits) 13012210 (2 credits) 13012215 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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>



Principles of Construction
Principles of Architecture

Level 1

Construction Technology I

Level 2

Construction Technology II

Level 3

Practicum in Construction
Technology
Career Preparation I

Level 4

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
NCCER Carpentry, Level 1	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management
NCCER Carpentry Level 2	Certified Installer	Industrial Mechanics and Maintenance Technology		
NCCER Core Curriculum	Certified Door Consultant			
	Fluid Power Connector and Conductor			

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

Occupations	Median Wage	Annual Openings	% Growth
Carpenters	\$35,922	5,031	26%
Cost Estimators	\$63,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow a carpenter or millwright. SkillsUSA	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.

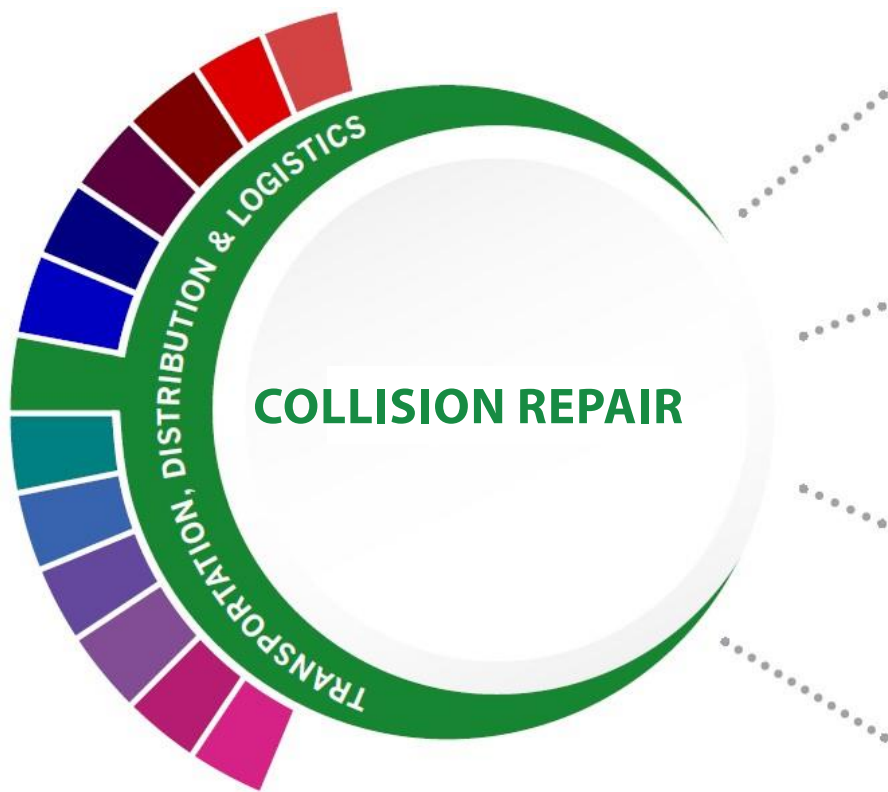
Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (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
Mill & Cabinetmaking Technology	13005300 (2 credits)	None	10-12
Practicum in Construction Technology	13005250 (2 credits) 13005255 (3 credits) 13005260 (2 credits) 13005265 (3 credits)	PREQ: Construction Technology II, Building Maintenance Technology II, Electrical Technology II, Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II, Plumbing Technology I, or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:
 Les Hudson | Les.Hudson@tea.texas.gov
<https://tea.texas.gov/cte>



Level 1 Basic Collision Repair and Refinishing

Level 2 Collision Repair/Lab

Level 3 Paint and Refinishing/Lab

Level 4 Practicum in Transportation Systems
Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S 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				
		Mechanical Engineering/ Collision and Repair Technology/ Technician	Mechanical Engineering/ Mechanical Technology/ Technician	
	Collision Repair and Refinish			

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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

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



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

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



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITS (CREQ)	Grade
Principles of Transportation Systems	13039250 (1 credit)	None	9-12
Small Engine Technology I	13040000 (1 credit)	None	9-12
Basic Collision Repair and Refinishing	13039750 (1 credit)	None	9-12
Automotive Basics	13039550 (1 credit)	None	9-12
Introduction to Transportation Technology	13039270 (.5 credit)	None	9-10
Small Engine Technology II	13040100 (2 credits)	PREQ: Small Engine Technology I	10-12
Collision Repair/Lab	13039800 (2 credits) 13039810 (3 credits)	None	10-12
Occupational Safety and Environmental Technology I	N1303680 (1 credit)	None	9-12
Automotive Technology I: Maintenance and Light Repair	13039600 (2 credits)	None	9-12
Energy and Power of Transportation Systems	13039300 (1 credit)	None	10-12
Paint and Refinishing/Lab	13039900 (2 credits) 13039910 (3 credits)	None	10-12
Automotive Technology II/Lab	13039700 (2 credits) 13039710 (3 credits)	PREQ: Automotive Technology I: Maintenance and Light Repair	11-12
Practicum in Transportation Systems	13040450 (2 credits) 13040455 (3 credits) 13040460 (2 credits) 13040465 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

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



Level 1 Principles of Cosmetology Design and Color Theory

Level 2 Introduction to Cosmetology

Level 3 Cosmetology I

Level 4 Cosmetology II

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Cosmetology Operator License	Certified Aesthetic Laser Operator	Cosmetology/ Cosmetologist, General		
Cosmetology Esthetician Specialty License	Cosmetologist	Aesthetician/ Esthetician and Skin Care Specialist		
	Certified Spa Supervisor	Salon/Beauty Salon Management/ Manager		
	Nail Technician/ Specialist and Manicurist	Cosmetology, Barber/Styling and Nail Instructor		

Occupations	Median Wage	Annual Openings	% Growth
First-Line Supervisors of Personal Service Workers	\$36,941	1,634	24%
Barbers	\$28,267	348	14%
Hairdressers, Hairstylists, and Cosmetologists	\$21,507	3,489	22%
Manicurists and Pedicurists	\$21,715	418	45%
Shampooers	\$18,720	139	24%
Skincare Specialists	\$26,437	637	22%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Participation in a Career and Technical Student Organization such as SkillsUSA	Job shadow a cosmetologist Work part-time at a beauty salon or spa

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

The Cosmetology and Personal Care Services program of study introduces CTE learners to knowledge and skills related to providing beauty and personal care services. CTE concentrators may learn about or practice managing personal care facilities and coordinating or supervising personal service workers.



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

Successful completion of the Cosmetology and Personal Care Services regional program of study will fulfill requirements of the Public Service Endorsement. See the regions approved to offer this program of study at <https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/regional-programs-of-study>. Revised - July 2020.



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Cosmetology Design and Color Theory	13025050 (1 credit)	None	9-10
Microbiology and Safety for Cosmetology Careers	N1302540 (1 Credit)	None	9-12
Introduction to Cosmetology	13025100 (1 Credit)	None	10
Nail Care, Enhancements, and Spa Services	N1302531 (2 Credits)	None	10-12
Esthetics	N1302533 (2 Credits)	None	10-12
Cosmetology I/Lab	13025200 (2 credits) 13025210 (3 credits)	None	10-11
Barbering I	N1302534 (3 Credits)	None	10-12
Cosmetology II/Lab	13025300 (2 credits) 13025310 (3 credits)	PREQ: Cosmetology I	11-12
Barbering II	N1302535 (3 Credits)	PREQ: Barbering I	10-12

FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER, PLEASE CONTACT:

Debbie Wieland | Debbie.Wieland@tea.texas.gov

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



Level 1 Introduction to Culinary Arts

Level 2 Culinary Arts

Level 3 Advanced Culinary Arts

Level 4 Food Science
Practicum in Culinary Arts
Career Preparation I

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Family, Career, and Community Leaders of America (FCCLA) or SkillsUSA	Plan a catering event or work for a catering company; participate in an on-campus bistro; work in a restaurant; cook at home

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

The Culinary Arts program of study introduces CTE learners to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.



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

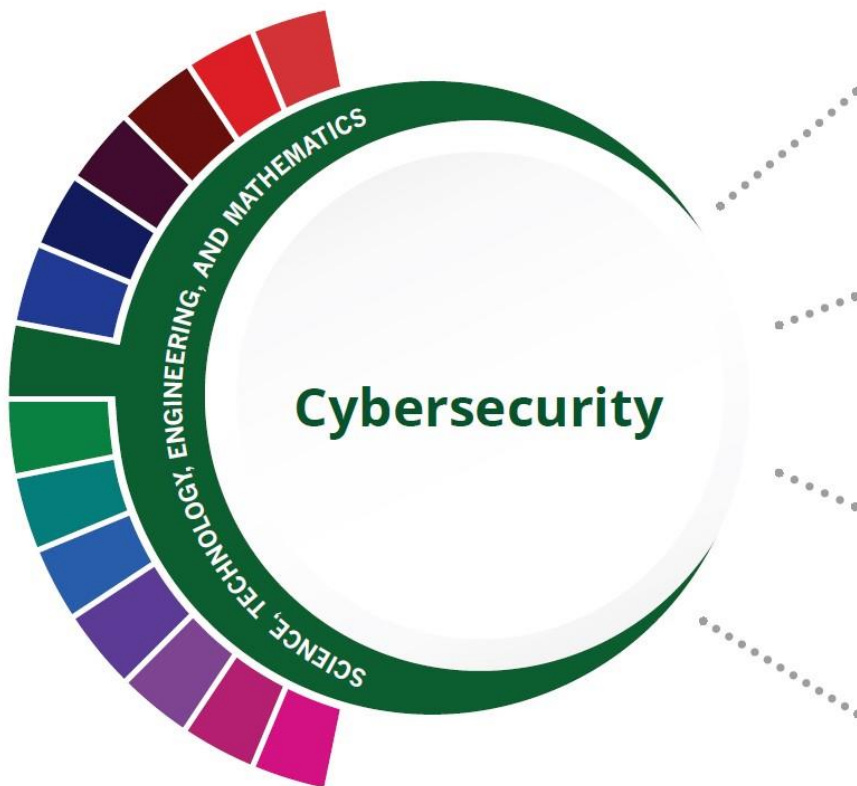
Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Introduction to Culinary Arts	13022550 (1 credit)	None	9-12
Principles of Hospitality and Tourism	13022200 (1 credit)	None	9-12
Culinary Arts	13022600 (2 credits)	None	10-12
Foundations of Restaurant Management	N1302268 (1 credit)	None	10-12
Advanced Culinary Arts	13022650 (2 credits)	PREQ: Culinary Arts	10-12
Food Science	13023000 (1 credit)	PREQ: 3 units of Science, including Chemistry and Biology	11-12
Practicum in Culinary Arts	13022700 (2 credits) 13022705 (3 credits) 13022710 (2 credits) 13022715 (3 credits)	PREQ: Culinary Arts	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE HOSPITALITY AND TOURISM CAREER CLUSTER, PLEASE CONTACT:
 Debbie Wieland | Debbie.Wieland@tea.texas.gov
<https://tea.texas.gov/cte>



Level 1 Principles of Information Technology
Fundamentals of Computer Science

Level 2 Computer Science I
AP Computer Science Principles

Level 3 AP Computer Science A-Math

Level 4 Practicum in Information Technology
Practicum in STEM
Project-Based Research

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Oracle Certified Associate Java SE 8	GIAC Reverse Engineering Malware	System Networking, and LAN/WAN Management	Computer Systems Networking and Telecommunications	Computer Systems Analysis/Analyst
Oracle Certified Database Associate	Certified Advanced Windows Forensic Examiner	Information Technology	Computer Systems Networking and Telecommunications	Information Technology
	SAP Certified Technology Professional System Security Architect	Computer and Information Sciences, General	Computer and Information Sciences, General	Computer and Information Sciences, General
	Cisco Certified Network Professional Security Certification	Computer Science	Computer Science	Computer Science

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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

The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.



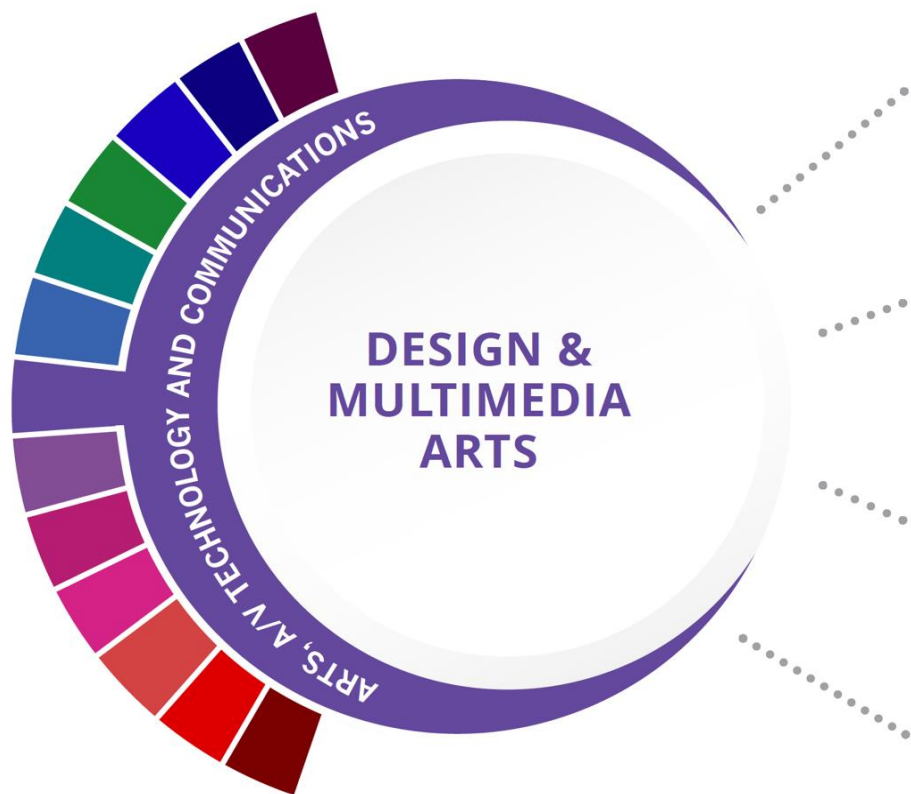
The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

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



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Information Technology	13027200 (1 credit)	None	9-10
Fundamentals of Computer Science	03580140 (.5 to 1 credit)	None	9-12
Foundations of Cybersecurity	03580850 (1 credit)	None	9-12
Internetworking Technologies I	N1302803 (1 credit)	None	10-12
Computer Science I	03580200 (.5 to 1 credits)	PREQ: Algebra I	9-12
Computer Maintenance/Lab	13027300 (1 credit) 13027310 (2 credits)	None	10-12
Engineering Applications of Computer Science Principles	N1303772 (1 credit)	None	10-12
Networking/Lab	13027400 (1 credit) 13027410 (2 credits)	None	10-12
Digital Forensics	03580360 (.5 to 1 credit)	None	9-12
Internetworking Technologies II	N1302804 (1 credit)	PREQ: Internetworking Technologies I	11-12
AP Computer Science Principles	A3580300	None	9-12
Discrete Mathematics for Computer Science	03580370 (.5-1 credit)	PREQ: Algebra II	11-12
IB Computer Science Standards Level	I3580320 (1 credit)	None	9-12
AP Computer Science-MATH	A3580110 (1 credit)	None	9-12
AP Computer Science- LOTE	A3580120 (1 credit)	None	9-12



Level 1
Principles of Arts, A/V Technology,
and Communications
Video Game Design
Digital Media

Level 2
Graphic Design and Illustration I
Animation I
Commercial Photography I
Fashion Design I

Level 3
Graphic Design and Illustration
II/Lab
Animation II/Lab
Commercial Photography II/Lab
Fashion Design II/Lab

Level 4
Practicum in Graphic Design and
Illustration
Practicum in Animation
Practicum in Commercial
Photography
Practicum in Fashion Design
Career Preparation I

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

The Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.



The Arts, A/V Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



COURSE INFORMATION

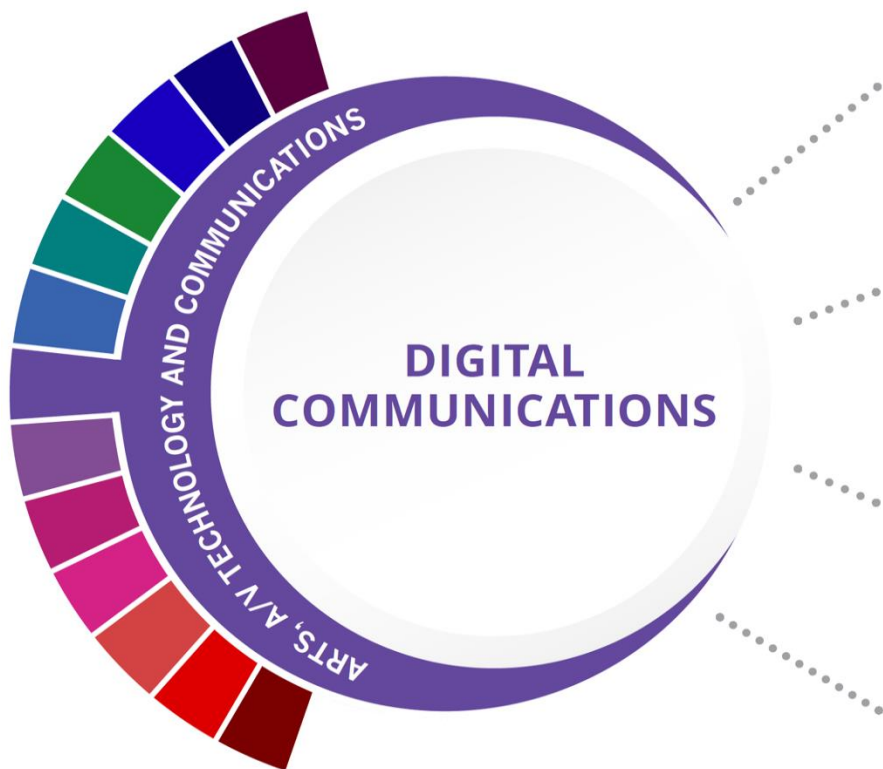
COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	9
Video Game Design	13009970 (1 credit)	None	9-12
Digital Media	13027800 (1 credit)	None	9-12
Graphic Design and Illustration I /Lab	13008800 (1 credit) 13008810 (2 credits)	None	10-12
Animation I/Lab	13008300 (1 credit) 13008310 (2 credits)	None	10-12
Video Game Programming	N1300994 (1 credit)	None	10-12
Commercial Photography I/Lab	13009100 (1 credit) 13009110 (2 credits)	None	9-12
Fashion Design I/Lab	13009300 (1 credit) 13009310 (2 credits)	None	10-12
Digital Design and Media Production	03580400 (1 credit)	None	9-12
Game Programing and Design	03580380 (1 credit)	PREQ: Algebra I	9-12
Graphic Design and Illustration II/Lab	13008900 (1 credit) 13008910 (2 credits)	PREQ: Graphic Design and Illustration I	10-12
Animation II/Lab	13008400 (1 credit) 13008410 (2 credits)	PREQ: Animation I	11-12
Advanced Video Game Programming	N1300995 (1 credit)	None	10-12
Fashion Design II/Lab	13009400 (1 credit) 13009410 (2 credits)	PREQ: Fashion Design I	11-12
Digital Art and Animation	03580500 (1 credit)	None	9-12
3-D Modeling and Animation	03580510 (1 credit)	None	9-12
Commercial Photography II/Lab	13009200 (1 credit) 13009210 (2 credit)	None	10-12

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Practicum in Graphic Design and Illustration	13009000 (2 credits) 13009005 (3 credits) 13009010 (2 credits) 13009015 (3 credits)	PREQ: Graphic Design and Illustration II and Graphic Design and Illustration II Lab	10-12
Practicum in Animation	13008450 (2 credits) 13008455 (3 credits) 13008460 (2 credits) 13008465 (3 credits)	PREQ: Animation II and Animation II Lab	11-12
Practicum in Commercial Photography	13009250 (2 credits) 13009255 (3 credits) 13009260 (2 credits) 13009265 (3 credits)	PREQ: Commercial Photography I and Commercial Photography I Lab.	10-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Web Game Development	03580830 (1 credit)	None	11-12

FOR ADDITIONAL INFORMATION ON THE ARTS, AUDIO/VIDEO, TECHNOLOGY, AND COMMUNICATIONS CAREER CLUSTER, PLEASE CONTACT:

Avery Barrera | Avery.Barrera@tea.texas.gov

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



Level 1

Principles of Arts, A/V Technology,
and Communications
Professional Communications

Level 2

Audio/Video Production I
Digital Audio Technology I

Level 3

Audio Video Production II/Lab
Digital Audio Technology II

Level 4

Practicum of Audio/Video
Production

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow a production team Participate in SkillsUSA or UIL	Intern at a local sporting event to capture, edit and produce deliverables Work with a local company on a project

The Digital Communications program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.



The Arts, A/V Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

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



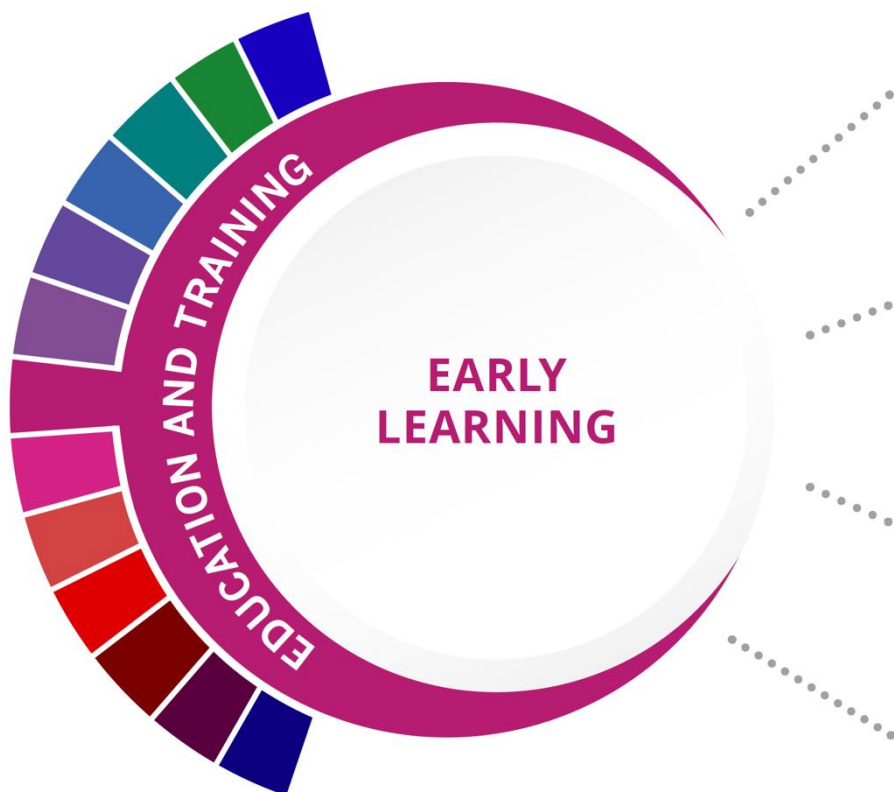
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Arts, A/V Technology, and Communications	13008200 (1 credit)	None	9
Professional Communications	13009900 (.5 credits)	None	9-12
Web Communications	03580810 (.5 credits)	None	9
Digital Communications in the 21st Century	03580610 (1 credit)	None	9-12
Audio/Video Production I/Lab	13008500 (1 credit) 13008510 (2 credits)	None	10-12
Digital Audio Technology I	13009950 (1 credit)	None	9-12
Audio Video Production II/Lab	13008600 (1 credit) 13008610 (2 credits)	PREQ: Audio/Video Production I	10-12
Digital Audio Technology II	13009960 (1 credit)	PREQ: Digital Audio Technology I	10-12
Practicum of Audio/Video Production	13008700 (2 credits) 13008705 (3 credits) 13008710 (2 credits) 13008715 (3 credits)	PREQ: Audio/Video Production II/Lab	11-12
Practicum of Digital Audio Technology	TBD	TBD	TBD
Practicum of Entrepreneurship	TBD	TBD	TBD

FOR ADDITIONAL INFORMATION ON THE ARTS, AUDIO/VIDEO, TECHNOLOGY, AND COMMUNICATIONS CAREER CLUSTER, PLEASE CONTACT:

Avery Barrera | Avery.Barrera@tea.texas.gov

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



Level 1 Principles of Education and Training
Principles of Human Services

Level 2 Child Development

Level 3 Child Guidance

Level 4 Project Based Research
Career Preparation I

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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



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

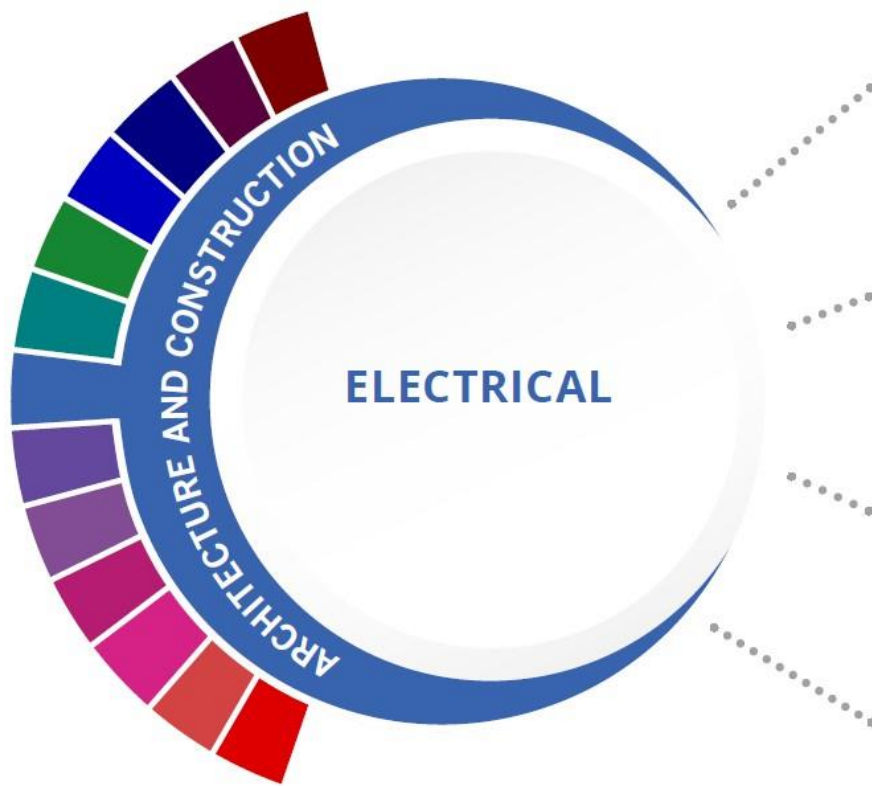
Successful completion of the Early Learning program of study will fulfill requirements of the Public Service endorsement.
Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (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
Child Development Associate Foundations	N1300500 (1 credit)	None	10-12
Child Guidance	13024800 (2 credits)	None	10-12
Practicum in Early Learning	TBD	TBD	TBD
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE EDUCATION AND TRAINING CAREER CLUSTER, PLEASE CONTACT:
 Debbie Wieland | Debbie.Wieland@tea.texas.gov
<https://tea.texas.gov/cte>



Level 1 Principles of Construction

Level 2 Electrical Technology I

Level 3 Electrical Technology II

Level 4 Practicum in Construction
Technology
Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
NCCER Electrical, Level 1 & 2	Electrical Plans Examiner	Electrician	Construction Science	Construction Management
NCCER Electronic Systems Technician, Level 1 & 2	Certified Electrical Inspector - Master	Communicati ons Systems Installation and Repair Technology		
Electrical Apprenticeship Certificate, Level 1	Fiber Optics Technician - Outside Plant			
NCCER Commercial Electrician	Certification in Fire Alarm Systems - Level 1			

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

The Electrical program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.

Occupations	Median Wage	Annual Openings	% Growth
Electrical Linemen	\$54,184	1,314	28%
Electricians	\$44,013	8,460	21%
Electrical and Electronics Installers	\$37,544	245	19%
Security and Fire Alarm Installers	\$43,638	1,112	22%
Telecommunication Line Installers and Repairers	\$49,150	1,228	10%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow an electrician or fiber optics line installer SkillsUSA	Intern or shadow an electrician



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

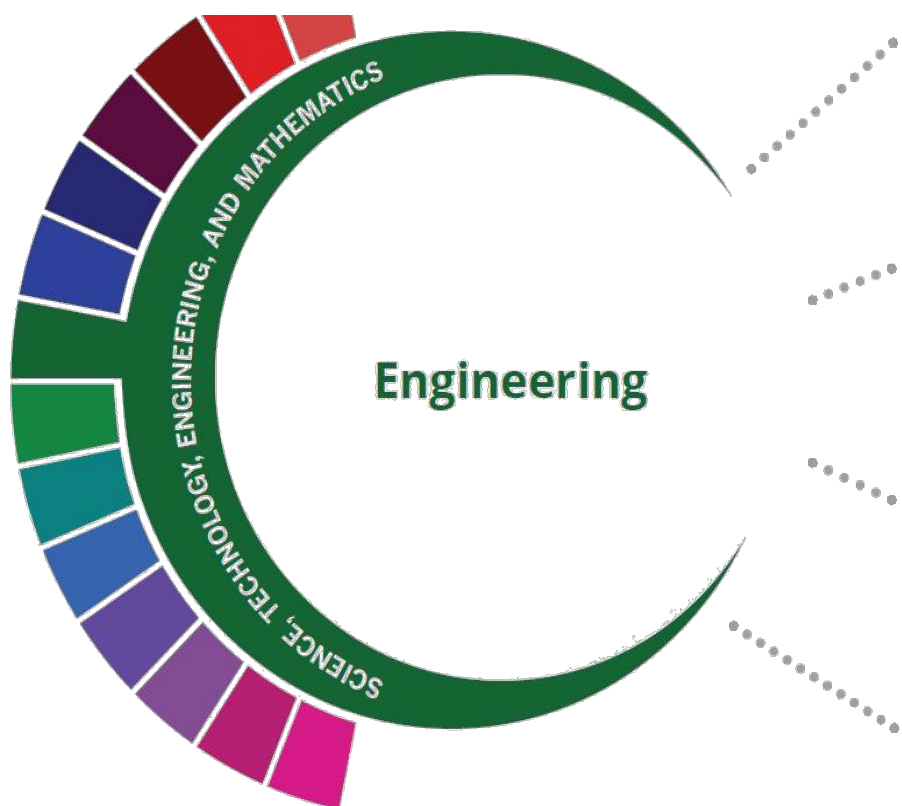
Successful completion of the Electrical program of study will fulfill requirements of the Business and Industry endorsement and STEM endorsement if the math and science requirements are met. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Construction	13004220 (1 credit)	None	9-12
Electrical Technology I	13005600 (1 credit)	None	10-12
Electrical Technology II	13005700 (2 credit)	PREQ: Electrical Technology I	11-12
Practicum in Construction Technology	13005250 (2 credits) 13005255 (3 credits) 13005260 (2 credits) 13005265 (3 credits)	PREQ: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:
 Les Hudson | Les.Hudson@tea.texas.gov
<https://tea.texas.gov/cte>



Level 1 Principles of Applied Engineering

Level 2

Level 3 Engineering Design and Presentation I

Level 4 Engineering Design and Presentation II
Practicum in STEM

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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

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



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

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

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Applied Engineering	13036200 (1 credit)	None	9-10
Computer Aided Drafting for Manufacturing (TBD)	TBD	TBD	TBD
Introduction to Engineering Design (PLTW)	N1303742 (1 credit)	None	9-12
Engineering Essentials (PLTW)	N1303760 (1 credit)	None	9-10
Manufacturing Engineering Technology I	13032900 (1 credit)	None	10-12
Engineering Design and Development (PTLW)	N1303749 (1 credit)	None	9-12
Engineering Design and Presentation I	13036500 (1 credit)	PREQ: Algebra I	10-12
Computer Integrated Manufacturing (PLTW)	N1303748 (1 credit)	None	9-12
Aerospace Engineering (PLTW)	N1303745 (1 credit)	None	9-12
Digital Electronics	13037600 (1 credit)	PREQ: Algebra I and Geometry	10-12
Civil Engineering & Architecture (PLTW)	N1303747 (1 credit)	None	9-12
Engineering Science	13037500 (1 credit)	PREQ: Algebra I and Biology Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	10-12
Environmental Sustainability (PLTW)	N1303746 (1 credit)	None	9-12
Engineering Design & Problem Solving	13037300 (1 credit)	PREQ: Algebra I and Geometry	11-12
Engineering Design and Presentation II	13036600 (2 credits)	PREQ: Algebra I and Geometry	11-12
Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credits) 13037405 (3 credits) 13037410 (2 credits) 13037415 (2 credits)	PREQ: Algebra I and Geometry	12
Scientific Research & Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics, and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS CAREER CLUSTER, PLEASE CONTACT:

Jennifer Bullock | Jennifer.Bullock@tea.texas.gov

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



Level 1	Principles of Human Services Professional Communications Interpersonal Studies Dollars and Sense
Level 2	Lifetime Nutrition and Wellness Human Growth and Development Child Development
Level 3	Counseling and Mental Health
Level 4	Practicum in Human Services Project-Based Research Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Child Development Precision Exams	Human Development and Family Studies	Human Development and Family Studies	Human Development and Family Studies	Human Development and Family Studies
	Community Health Services/ Liaison/ Counseling	Human Services/Sciences, General	Human Services/Sciences, General	Marriage and Family Therapy/ Counseling
	Distance Credentialed Counselor	Family and Consumer Sciences	Family and Consumer Sciences	Human Services/ Sciences
	Educator Certification in Family and Consumer Sciences	Community Health Services	Child and Family Services	Family Studies

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

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

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

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



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

Successful completion of the Family and Community Services program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITS (CREQ)	Grade
Principles of Human Services	13024200 (1 credit)	None	9-12
Professional Communications	13009900 (.5 credit)	None	9-12
Interpersonal Studies	13024400 (.5 credit)	None	9-12
Dollars and Sense	13024300 (.5 credit)	None	11-12
Principles of Community Services	N1302542 (1 credit)	None	9-10
Lifetime Nutrition and Wellness	13024500 (.5 credit)	None	9-12
Human Growth and Development	13014300 (1 credit)	None	10-12
Child Development	13024700 (1 credit)	None	10-12
Social and Community Services (TBD)	TBD	TBD	TBD
Family and Community Services	13024900 (1 credit)	None	10-12
Practicum in Human Services	13025000 (2 credits) 13025005 (3 credits) 13025010 (2 credits) 13025015 (3 credits)	None	11-12
Practicum in Entrepreneurship (TBD)	TBD	TBD	TBD
Project-Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER, PLEASE CONTACT:
 Debbie Wieland | Debbie.Wieland@tea.texas.gov
<https://tea.texas.gov/cte>



Level 1	Principles of Human Services
Level 2	Lifetime Nutrition and Wellness Human Growth and Development Interpersonal Studies
Level 3	
Level 4	Practicum in Human Services Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
	Registered Dietitian	Nutrition Sciences	Nutrition Sciences	Nutrition Sciences
	Counselor, Professional	Community Health Services/ Liaison/ Counseling	Mental Health Counseling/ Counselor	Community Health and Preventative Medicine
	Registered Dietitian Nutritionist	Health and Wellness, General	Nutrition	Nutrition
	Social Worker	Public Health	Human Nutrition and Foods	Exercise and Sports Nutrition

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

Occupations	Median Wage	Annual Openings	% Growth
Community Health Workers	\$38,064	592	25%
Rehabilitation Counselors	\$43,930	586	23%
Mental Health Counselors	\$41,558	812	38%
Health Care Social Workers	\$55,515	1,583	35%
Dietitians and Nutritionists	\$57,762	428	24%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
American Association of Family and Consumer Sciences; Family, Career and Community Leaders of America	Job shadow a dietitian or nutritionist; work part-time at a counseling services center, health department or hospital

The Health and Wellness program of study introduces students to knowledge and skills related to promoting physical, emotional, social, and mental health and wellness. Students who choose this program of study may learn how to assist patients in planning for their health and wellness, respond to crises, and advise, provide education or counseling, or make referrals. CTE learners may also focus on addressing barriers to access health and wellness services.



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

Successful completion of the Health and Wellness program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



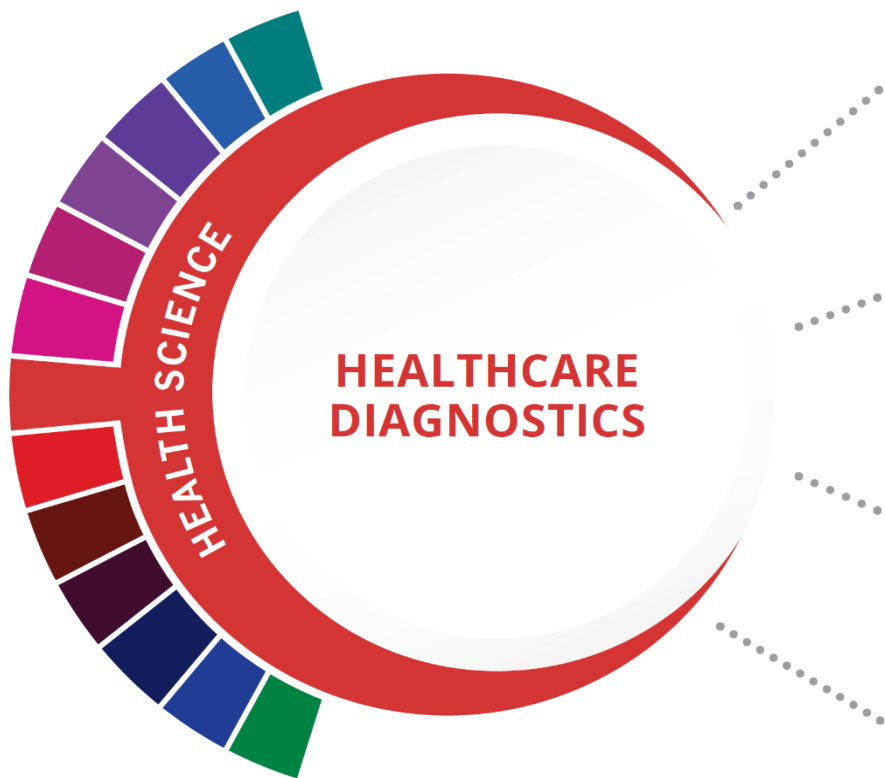
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Human Services	13024200 (1 credit)	None	9-12
Lifetime Nutrition and Wellness	13024500 (.5 credit)	None	9-12
Human Growth and Development	13014300 (1 credit)	None	10-12
Interpersonal Studies	13024400 (.5 credit)	None	9-12
Applied Nutrition and Dietetics	N1302541 (1 credit)	None	10-12
Practicum in Human Services	13025000 (2 credits) 13025005 (3 credits) 13025010 (2 credits) 13025015 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Advanced Nutrition and Dietetics (TBD)	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE HUMAN SERVICES CAREER CLUSTER, PLEASE CONTACT:

Debbie Wieland | Debbie.Wieland@tea.texas.gov

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



Level 1 Principles of Health Science

Level 2 Medical Terminology

Level 3 Health Science Theory
Medical Microbiology

Level 4 Anatomy and Physiology
Pathophysiology
Practicum in Health Science

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
CPR	Medical Sonographer	Nuclear Medical Technology/ Technologist	Nuclear Medical Technology/ Technologist	Radiologist
	Radiologic Technologist	Magnetic Resonance Imaging (MRI) Technology/ Technician	Medical Radiologic Technology/ Science Radiation Therapist	Radiologic Technology/ Science - Radiographer
Clinical Nursing Assistant				

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

Occupations	Median Wage	Annual Openings	% Growth
Diagnostic Medical Sonographers	\$69,909	495	35%
Phlebotomists	\$30,597	1442	36%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1196	19%
Magnetic Resonance Imaging Technologists	\$68,661	217	21%

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

The Healthcare Diagnostics program of study introduces students to occupations and education opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology and ultrasound technology.



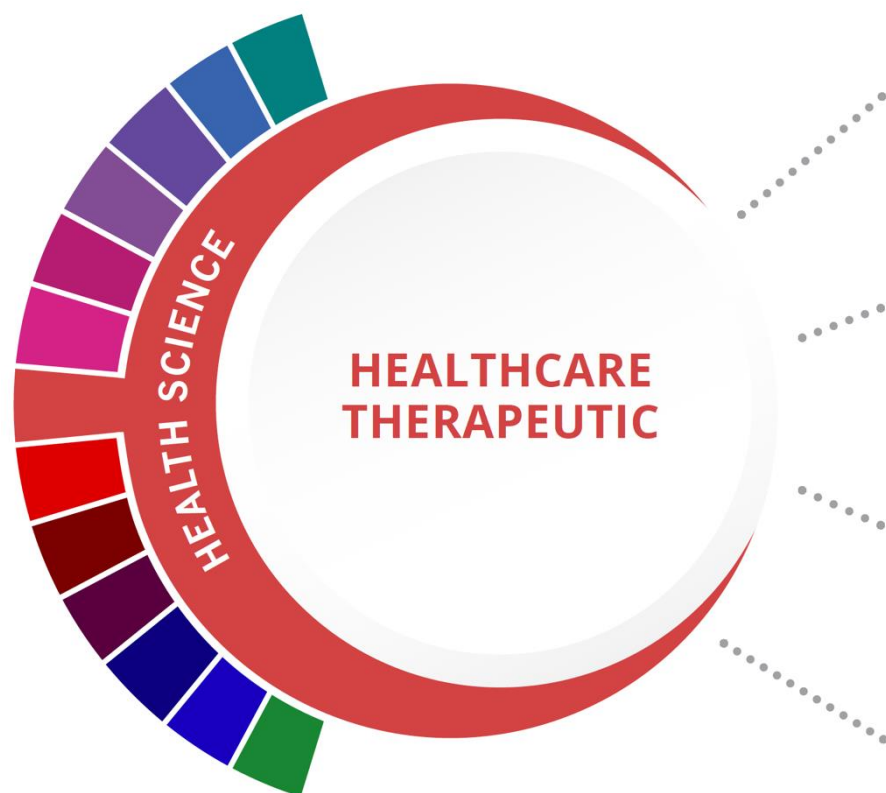
The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically,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

Successful completion of the Healthcare Diagnostics program of study will fulfill requirements of the Public Service or STEM Endorsement if the math and science requirements are met. Revised- July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Health Science	13020200 (1 credit)	None	9-10
Principles of Diagnostic Healthcare	N1302106 (1 credit)	None	9-10
Introduction to Imaging Technology	N1302102 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Imaging Technology I	TBD	TBD	TBD
Health Science Theory	13020400 (1 credit) 13020410 (2 credits)	PREQ: Biology	10-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Imaging Technology II	TBD	TBD	TBD
Anatomy and Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Pathophysiology	13020800	PREQ: Biology and Chemistry	10-12
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	PREQ: Health Science Theory and Biology	11-12



Level 1 Principles of Health Science

Level 2 Medical Terminology

Level 3 Anatomy and Physiology
Health Science Theory
Medical Microbiology

Level 4 Pathophysiology
Pharmacology
Practicum in Health Science

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



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

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



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Health Science	13020200 (1 credit)	None	9-10
Principles of Therapeutic Healthcare	N1302110 (1 credit)	None	9-10
Introduction to Pharmacy Science	N1302103 (1 credit)	None	9-10
Introduction to Dental Science	N1302101 (1 credit)	None	9-11
Medical Terminology	13020300 (1 credit)	None	9-12
Dental Anatomy and Physiology	TBD	TBD	TBD
Pharmacy I	TBD	TBD	TBD
Anatomy and Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Health Science Theory	13020400 (1 credit) 13020410 (2 credits)	PREQ: Biology	10-12
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Pharmacy II	TBD	TBD	TBD
Medical Assistant	TBD	TBD	TBD
Dental Equipment and Procedures	TBD	TBD	TBD
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	11-12
Pharmacology	13020950 (1 credit)	PREQ: Biology and Chemistry	11-12

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	PREQ: Health Science Theory and Biology	11-12

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

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



Level 1 Principles of Business, Marketing, and Finance

Level 2 Fashion Marketing
Sports and Entertainment Marketing

Level 3 Social Media Marketing
Advertising

Level 4 Advanced Marketing
Practicum in Marketing
Career Preparation I

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

The Marketing and Sales program of study teaches CTE learners how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits.



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

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



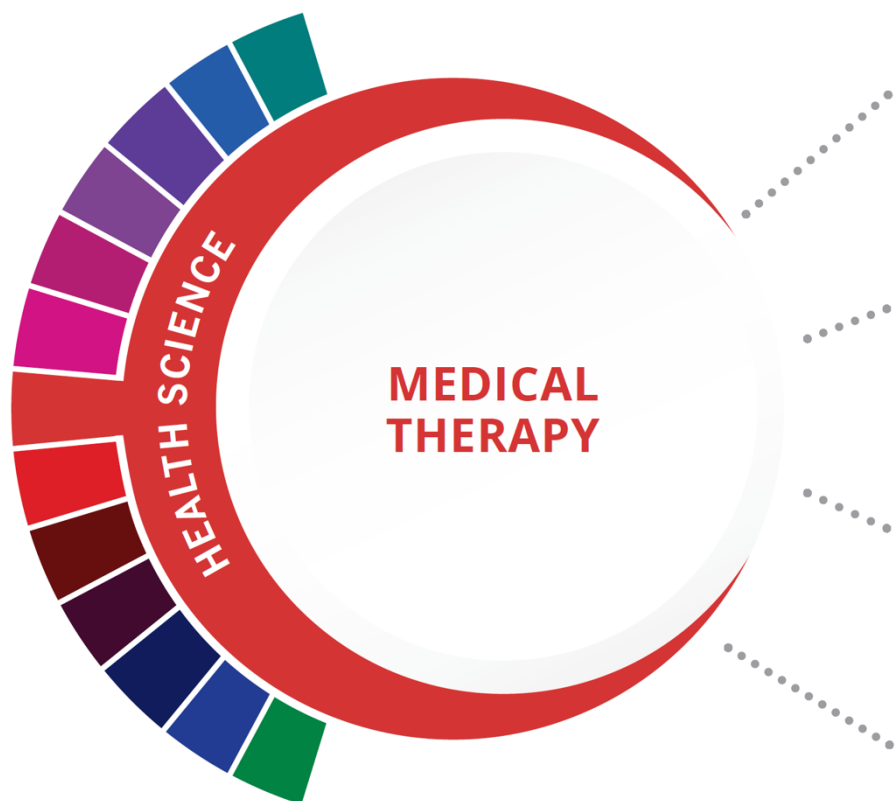
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Business, Marketing, and Finance	13011200 (1 credit)	None	9-11
Fashion Marketing	13034300 (.5 credit)	None	9-12
Sports and Entertainment Marketing	13034600 (.5 credit)	None	9-12
Virtual Business	13012000 (.5 credit)	None	10-12
Marketing	N1303424 (1 credit)	None	10-12
Social Media Marketing	13034650 (.5 credit)	None	9-12
Advertising	13034200 (.5 credit)	None	9-12
Retail Management	N1303420 (1 credit)	None	10-12
Sports and Entertainment Marketing II	N1303422 (.5 credit)	PREQ: Sports and Entertainment Marketing	10-12
Statistics and Business Decision Making	13016900 (1 credit)	PREQ: Algebra II	11-12
Fundamentals of Real Estate	N1301120 (2 credits)	None	11-12
Advanced Marketing	13034700 (2 credits)	PREQ: One credit from the courses in the Marketing Career Cluster	11-12
Practicum in Marketing	13034800 (2 credits) 13034805 (3 credits) 13034810 (2 credits) 13034815 (3 credits)	None	11-12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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>



Level 1 Principles of Health Science

Level 2 Medical Terminology

Level 3 Health Science Theory

Level 4 Practicum in Health Science

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
CPR	Certified Respiratory Therapist	Occupational Therapy Assistant	Respiratory Therapists	Occupational Therapists
	Certified Physical Therapy Assistant	Radiation Therapists		Speech Language Pathologist
		Respiratory Therapists		Physical Therapists
Clinical Nursing Assistant		Physical Therapy Assistant		

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

The Medical Therapy program of study focuses on the study of biology and medicine in order to introduce students to the knowledge and skills necessary to be successful in the healthcare field in occupations such as, Respiratory, Occupational, Physical, or Speech Therapy. CTE learners may also practice patient care and communication.



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

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

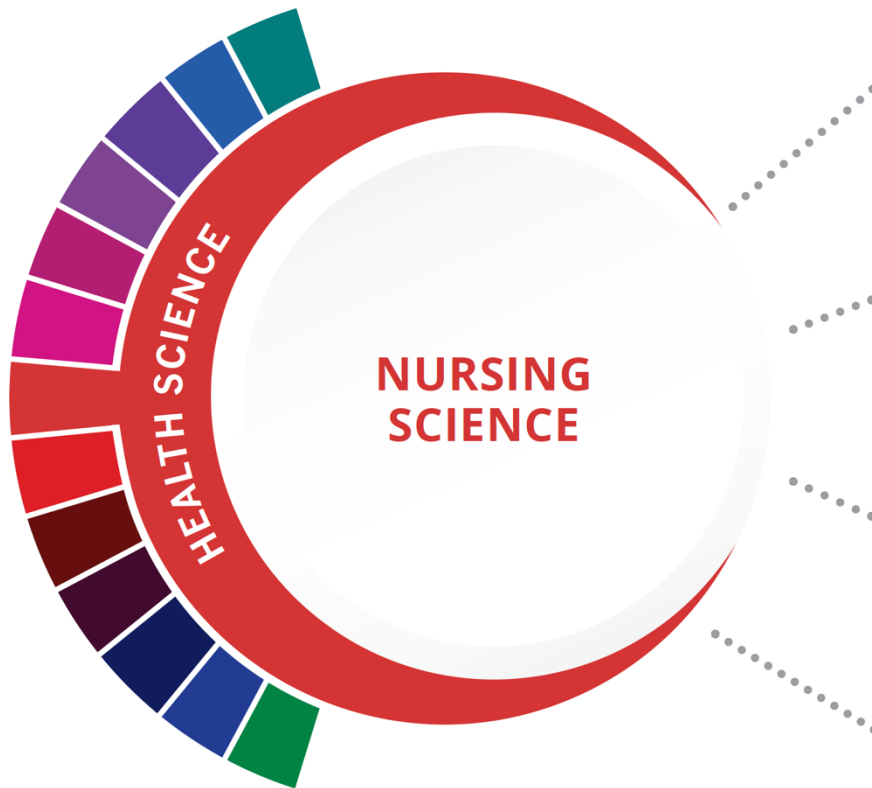
COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Health Science	13020200 (1 credit)	None	9-10
Introduction to Speech Pathology and Audiology	N1302100 (1 credit)	None	10-12
Principles of Allied Health	N1302105 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Speech and Language Development	N1302098 (1 credit)	None	11-12
Allied Health Therapeutic Service	TBD	TBD	TBD
Speech Communication Disorders	N1302099 (1 credit)	None	11-12
Health Science Theory	13020400 (1 credit) 13020410 (2 credits)	PREQ: Biology	10-12
Physical Therapy I	TBD	TBD	TBD
Occupational Therapy I	TBD	TBD	TBD
Radiation Therapy I	TBD	TBD	TBD
Respiratory Therapy I	TBD	TBD	TBD
Practicum in Health Science	13020500 (2 credits) 13020505 (3 credits) 13020510 (2 credits) 13020515 (3 credits)	PREQ: Health Science Theory and Biology	11-12
Occupational Therapy II	TBD	TBD	TBD
Physical Therapy II	TBD	TBD	TBD
Radiation Therapy II	TBD	TBD	TBD
Respiratory Therapy II	TBD	TBD	TBD

FOR ADDITIONAL INFORMATION ON THE HEALTH SCIENCE CAREER CLUSTER, PLEASE CONTACT:

Kevin Johnson | Kevin.Johnson@tea.texas.gov

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



Level 1 Principles of Health Science

Level 2 Medical Terminology

Level 3 Medical Microbiology
Anatomy and Physiology

Level 4 Pathophysiology
Pharmacology

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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



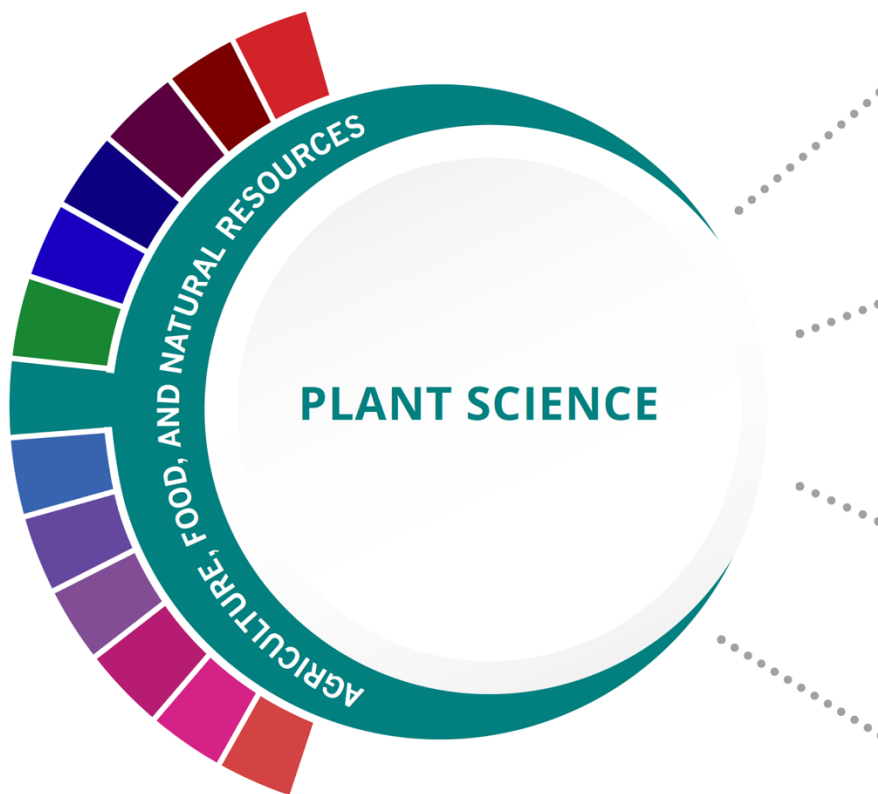
The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically,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

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



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Health Science	13020200 (1 credit)	None	9-10
Principles of Nursing Science	N1302109 (1 credit)	None	9-10
Medical Terminology	13020300 (1 credit)	None	9-12
Science of Nursing	TBD	TBD	TBD
Medical Microbiology	13020700 (1 credit)	PREQ: Biology and Chemistry	10-12
Anatomy and Physiology	13020600 (1 credit)	PREQ: Biology and a second science credit	10-12
Clinical Ethics	TBD	TBD	TBD
Leadership and Management in Nursing	TBD	TBD	TBD
Pathophysiology	13020800 (1 credit)	PREQ: Biology and Chemistry	11-12
Pharmacology	13020950 (1 credit)	PREQ: Biology and Chemistry	11-12
Practicum in Nursing	TBD	TBD	TBD



Principles of Agriculture, Food, and Natural Resources

Level 1

Level 2

Level 3 Floral Design
Horticultural Science

Level 4 Practicum in Agriculture, Food, and Natural Resources
Project-Based Research

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

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

Occupations	Median Wage	Annual Openings	% Growth
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:	Work Based Learning Activities:
Texas FFA	Work part-time at a florist; start or work for a local landscaping business FFA Supervised Agriculture Experience (SAE)

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



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

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

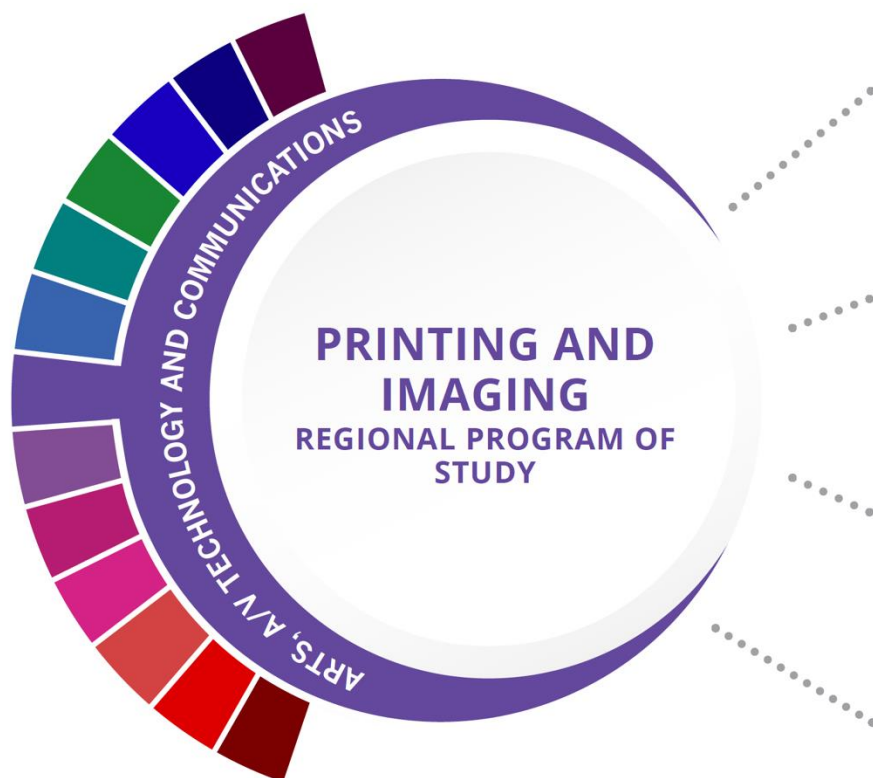


COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Floral Design/Lab	13001800 (1 credit) 13001810 (2 credits)	None	9-12
Landscape Design and Management	13001900 (.5 credit)	None	10-12
Turf Grass Management	13001950 (.5 credit)	None	10-12
Horticultural Science/Lab	13002000 (1 credit) 13002010 (2 credits)	None	10-12
Advanced Floral Design	N1300270 (1 credit)	PREQ: Floral Design	11-12
Greenhouse Operation and Production/Lab	13002050 (1 credit) 13002060 (2 credits)	None	10-12
Viticulture	N1300265 (1 credit)	None	10-12
Advanced Plant and Soil Science	13002100 (1 credit)	None	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	11-12
Project-Based Research	12701500 (1 credit)	None	11-12
Scientific Research and Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCE CAREER CLUSTER, PLEASE CONTACT:

Les Hudson | Les.Hudson@tea.texas.gov
<https://tea.texas.gov/cte>



Graphic Design and Illustration I

Level 1

Printing and Imaging Technology I

Level 2

Printing and Imaging Technology II

Level 3

Practicum in Printing and Imaging Technology

Level 4

DUNCANVILLE HIGH SCHOOL/INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Adobe Certified Associate (ACA) - Creative Cloud (Photoshop, Illustrator, InDesign, Premiere Pro, Animate, and Dreamweaver)	Improvement Professional in Print (IPP) certificate	Graphic Design	Art or Fine Arts	Fine Arts
	Graphic Media Production Level I	Graphic Media	Computer Graphics	
	Graphic Design Levels I and II	Visual Design	Graphic Design or Animation	
		Visual Communication Technology	Interactive Media	

Occupations	Median Wage	Annual Openings	% Growth
Art Directors	\$77,958	179	21%
Multimedia Artists and Animators	\$67,392	186	21%
Desktop Publishers	\$37,107	101	9%
Printing Press Operators	\$34,549	1,103	9%

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow a production team SkillsUSA	Intern with a multimedia studio. Obtain a certificate in graphic design.

The Printing and Imaging regional program of study introduces CTE learners to knowledge and skills related to providing printing and imaging services. CTE learners may learn about or practice the foundations of business management, customer service, graphic design, graphic production and large format printing.



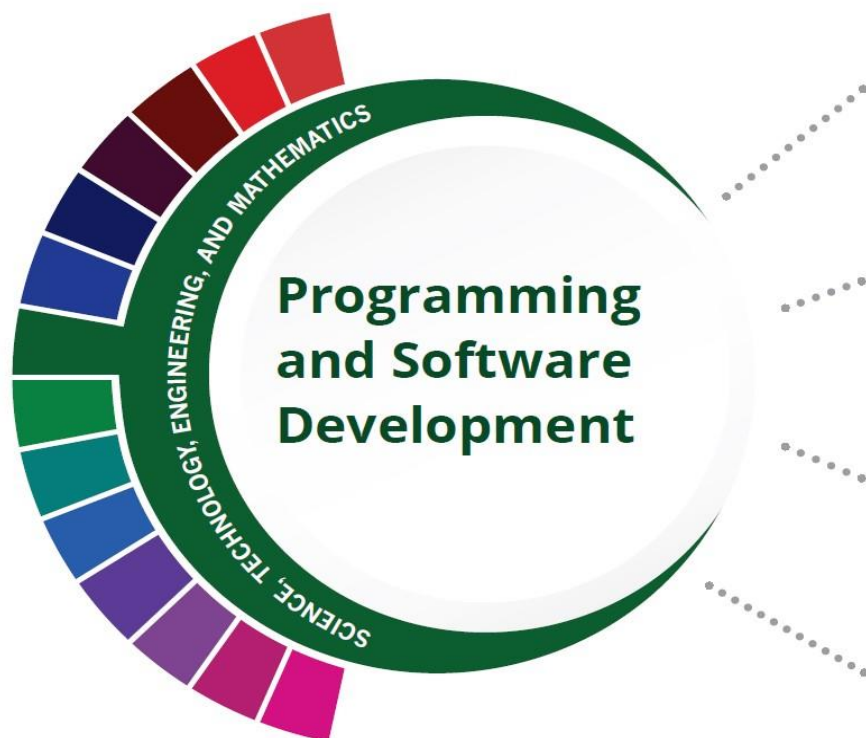
The Arts, A/V Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC Career Cluster 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 Printing and Imaging regional program of study will fulfill requirements of the Business and Industry Endorsement. See the regions approved to offer this program of study at <https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/regional-programs-of-study>. Revised - July 2020.



COURSE INFORMATION

[illegible]



Level 1

Level 2

AP Computer Science Principles
Computer Science I

Level 3

AP Computer Science A, MATH

Level 4

Practicum in Information Technology
Practicum in Audio/Video Production
Practicum in Science, Technology,
Engineering, and Mathematics
Career Preparation I

DUNCANVILLE HIGH SCHOOL/ INDUSTRY CERTIFICATION	POST-SECONDARY OPTIONS			MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	
Oracle Certified Association JAVA SE 8 Programmer	Certified Computing Professional	Computer Programming/ Programmer General	Management Information Systems, General	Computer Software Engineer
Oracle Certified Database Associate	Cloud Technology Associate Certification	Computer Software Engineer	Computer Software Engineer	Computer Science
	AEM 6 Developer	Computer Science	Computer Science	Information Science/ Studies
Microsoft Technology Associate, Introduction to Programming Using Java or JavaScript	Certified Software Analyst	Certified Software Analyst	Information Science/ Studies	

Occupations	Median Wage	Annual Openings	% Growth
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Applications	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
Exploration Activities:	Work Based Learning Activities:
Join TSA Participate in coding club at school	Obtain an industry-based certification.

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

The 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.

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

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Fundamentals of Computer Science	03580140 (.5 to 1 credit)	None	9-12
AP Computer Science Principles	A3580300 (1 credit)	None	9-12
Computer Science I	03580200 (.5 to 1 credit)	PREQ: Algebra I	9-12
Game Programming and Design	03580380 (.5 to 1 credit)	PREQ: Algebra I	9-12
Introduction to C# Programming Applications	N1302812 (1 credit)	None	11-12
AP Computer Science A, MATH, LOTE	A3580110 (MATH) (1 credit) A3580120 (LOTE) (1 credit)	None	9-12
Mobile Application Development	03580390 (.5 to 1 credit)	PREQ: Algebra I	11-12
Computer Science II	03580300 (1 credit)	PREQ: Algebra I, Computer Science I, or Fundamentals of Computer Science	11-12
Advanced Cloud Computing	N1302813 (1 credit)	None	10-12
IB Computer Science Standard Level	I3580200 (2 credits)	None	9-12
Discrete Mathematics for Computer Science	03580370 (.5 to 1 credit)	PREQ: Algebra	11-12
Computer Science III	03580350 (1 credit)	PREQ: Computer Science II, AP Computer Science A	12
IB Computer Science Higher Level MATH, LOTE	I3580310 (MATH) (1 credit) I3580320(LOTE) (1 credit)	None	9-12
Practicum in Information Technology	13028000 (2 credit) 13028005 (3 credit) 13028010 (2 credit) 13028015 (3 credit)	PREQ: Two high school information technology courses	12
Practicum in Audio/Video Production	13008700 (2 credit) 13008705 (3 credit) 13008710 (2 credit) 13008715 (3 credit)	PREQ: Audio/Video Production II Lab	11-12
Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credit) 13037405 (3 credit) 13037410 (2 credit) 13037415 (3 credit)	PREQ: Algebra I and Geometry	12

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Practicum in Entrepreneurship (TBD)	TBD	TBD	TBD
Career Preparation I	12701300 (2 credit) 12701305 (3 credit)	None	11-12
Independent Study in Technology Applications	03580900 (.5 to 1 credit)	None	12
Independent Study in Evolving/Emerging Technologies	03581500 (.5 to 1 credit)	None	12

FOR ADDITIONAL INFORMATION ON THE SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS CAREER CLUSTER,

PLEASE CONTACT:

Laura Torres | Laura.Torres@tea.texas.gov

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



Level 1

Principles of Education and Training
Principles of Human Services

Level 2

Human Growth and Development
Child Development

Level 3

Instructional Practices

Level 4

Practicum in Education and Training
Project Based Research
Career Preparation I

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

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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



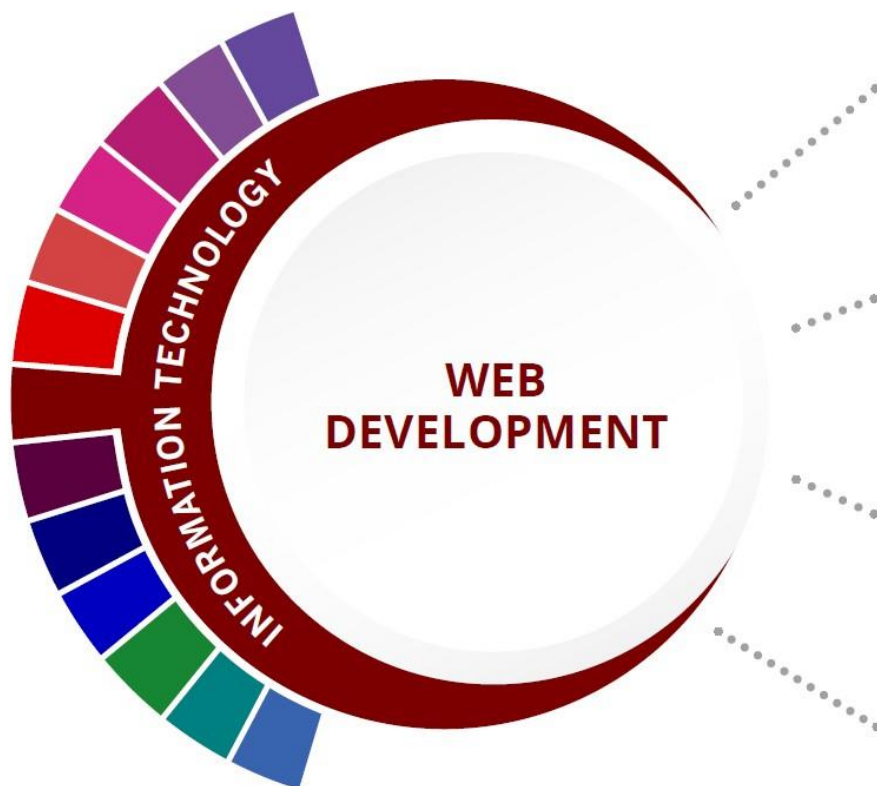
The Education and Training Career Cluster focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (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
Human Growth and Development	13014300 (1 credit)	None	10-12
Child Development	13024700 (1 credit)	None	10-12
Communication and Technology in Education	N1300510 (1 credit)	None	10-12
Instructional Practices	13014400 (2 credits)	None	11-12
Special Populations	TBD	TBD	TBD
Practicum in Education and Training	13014500 (2 credits) 13014505 (3 credits) 13014510 (2 credits) 13014515 (3 credits)	PREQ: Instructional Practices	12
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12



Level 1 Principles of Information Technology

Computer Science I

Level 2

Web Design

Level 3

Level 4 Practicum in Information Technology
Project Based Research
Career Preparation

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

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

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

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

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



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

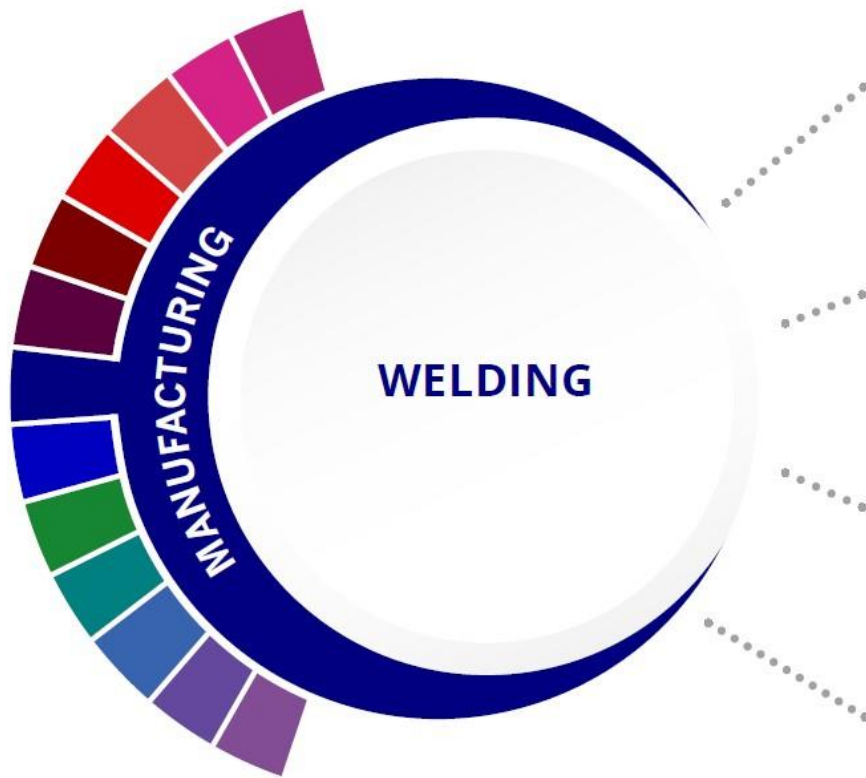
Successful completion of the Web Development program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Information Technology	13027200 (1 credit)	None	9-12
Web Communications	03580810 (.5 credit)	None	9-12
Computer Science I	03580200 (1 credit)	None	9-12
Foundations of User Experience	N1302809 (1 credit)	None	10-12
Web Design	03580820 (1 credit)	None	9-12
Web Game Development	03580830 (1 credit)	None	9-12
Advanced User Experience Design	N1302814 (1 credit)	None	10-12
Practicum in Information Technology	13028000 (2 credit) 13028005 (3 credit) 13028010 (2 credit) 13028015 (3 credit)	PREQ: A minimum of two high school information technology (IT) courses	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Independent Study in Technology Applications	03580900 (.5 to 1 credit)	None	9-12
Independent Study in Evolving/Emerging Technologies	03581500 (.5 to 1 credit)	None	9-12
Project Based Research	12701500 (1 credit)	None	11-12
Career Preparation	12701300 (2 credit) 12701305 (3 credit)	None	11-12

FOR ADDITIONAL INFORMATION ON THE INFORMATION TECHNOLOGY CAREER CLUSTER, PLEASE CONTACT:
 Laura Torres | Laura.Torres@tea.texas.gov
<https://tea.texas.gov/cte>



Introduction to Welding

Level 1

Level 2 Welding I

Level 3 Welding II/Lab

Level 4 Practicum in Manufacturing
Career Preparation I

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

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

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

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

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

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



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

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



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Introduction to Welding	13032250 (1 credit)	None	9-12
Welding I	13032300 (2 credit)	None	10-12
Introduction to Film Interpretation of Weldments	N1303687 (1 credit)	None	10-12
Welding II/Lab	13032400 (2 credits) 13032410 (3 credits)	PREQ: Welding I	11-12
Practicum in Manufacturing	13033000 (2 credits) 13033005 (3 credits) 13033010 (2 credits) 13033015 (3 credits)	None	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

FOR ADDITIONAL INFORMATION ON THE MANUFACTURING CAREER CLUSTER, PLEASE CONTACT:
 Jennifer Bullock | Jennifer.Bullock@tea.texas.gov
<https://tea.texas.gov/cte>

CAREER AND TECHNICAL STUDENT ORGANIZATIONS

It is a requirement by TEA and ALL CTE programs participate and have an active chapter in any of the approved CTSO that best represents your program. Sec. 29.182. STATE PLAN FOR CAREER AND TECHNOLOGY EDUCATION. (D) as an integral part of the program, participation by students and teachers in activities of career and technical student organizations supported by the agency and the State Board of Education. Added by Acts 1995, 74th Leg., Ch. 260, 1, eff. May 30, 1995.

	<p>Business Professionals of America (BPA)</p> <p>Business Professionals of America has a history as a student organization that contributes to the preparation of a world-class workforce through the advancement of leadership, citizenship, academic, and technological skills for students at the secondary and the post-secondary level. Through co- curricular programs and services, members of Business Professionals of America compete in demonstrations of their business technology skills, develop their professional and leadership skills, network with one another and professionals across the nation, and get involved in the betterment of their community through good works projects.</p>
	<p>Distributive Education Clubs of America (DECA)</p> <p>DECA The experience starts in the classroom where students learn business concepts in preparation for college and careers. A powerful instructional component, DECA brings the classroom to life by empowering the teacher-educator to make learning relevant with educational programs that integrate into classroom instruction, apply learning, connect to business and promote competition. DECA continues to be a leader in supporting key educational initiatives through its comprehensive learning program, which directly supports Career Clusters®, National Curriculum Standards, 21st Century Skills, project-based learning and financial literacy.</p>
	<p>Family, Career, and Community Leaders of America (FCCLA)</p> <p>T.A.F.E. is a statewide organization that offers students the opportunity to explore the teaching profession. We accomplish this by creating and supporting various activities, workshops, contests, scholarships, and summer workshops.</p>
	<p>Texas Association of Future Educators (TAFE)</p> <p>T.A.F.E. is a statewide organization that offers students the opportunity to explore the teaching profession. We accomplish this by creating and supporting various activities, workshops, contests, scholarships, and summer workshops.</p>
	<p>Health Occupations Students of America (HOSA)</p> <p>Health Occupations Students of America (HOSA) is a national vocational student organization endorsed by the U.S. Department of Education and the Health Occupations Education Division of the American Vocational Association. HOSA's two-fold mission is to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people. HOSA's goal is to encourage all health occupations instructors and students to join and be actively involved in the HOE- HOSA Partnership.</p>
	<p>National Future Farmers of America Organization (FFA)</p> <p>FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.</p>
	<p>Skills USA</p> <p>SkillsUSA is a national organization serving high school and college students and professional members who are enrolled in technical, skilled, and service occupations, including health occupations.</p>
	<p>Technology Student Association (TSA)</p> <p>The Technology Student Association (TSA) is the only student organization devoted exclusively to the needs of technology education students who are presently enrolled in, or have completed, technology education courses.</p>

CTSO General Information

- Students participating in CTSO competitions will follow the base guidelines of UIL for No Pass No Play Regulations.
- Constitutions/ Bylaws will be required for all CTSAs.
- Meeting dates and minutes will be required for submission.
- Area, local and district competitions are covered by fund raising activities.
- State and National & International competitions will be offset with CTE funds.

Planning For Your Future

Here are some websites to visit and research information about Careers, Colleges, Financial Aid and College Entrance Exams.

When you do research, you need to look for the following information:

- How do your interests and abilities connect to a career?
- What college degrees, licenses, certifications or specialty training will you need for the career you want?
- How many years will it take you to get to the career you want?
- What is the job description of the career you are interested in? What will you be doing?
- What is the average starting salary of an entry level position?
- What opportunities for advancement will you have in this career? What are the benefits of this career?
- Where will you have to live for this career?
- What is the job outlook for the future in this career? Is it growing or dying?

Duncanville High School Go Center:
dhs.duncanvilleisd.org/go-center

Duncanville ISD P-TECH & T-STEM:
duncanvilleisd.org/ptech

Career Planning



Career Web Sites

Occupational Outlook Handbook: bls.gov/ooh/
O*net Online: onetonline.org
Mapping Your Future: mappingyourfuture.org
My Future: myfuture.com
Internet Career Connection: iccweb.com
Career Explorer: careerexplorer.com

College Board and ACT websites provide excellent guides for career planning. The College Board website (www.collegeboard.com/career) even includes an online Career Questionnaire that points you to possible careers based on responses to sections on temperament, abilities, working conditions, educational interest areas, salary requirements, and future demand for the employment area. The ACT website (www.act.org/pate/parent/career) encourages parents and student to work together in a career planning process that is developed in six steps. As you progress through high school, continue to visit these websites as they continue to expand guidance for students and parents. Also, use career and continuing education guidance programs available on your campus.

College

College Entrance Exams and Test Prep:

Going to a 4-year college?

- Take the SAT or ACT, and possibly a subject area test.
- Check the college's website for their entrance requirements and deadlines.
- Register online by the deadline, late fees will apply after deadline. (Fee waivers are available for students who qualify for free or reduced lunch)

Going to a 2-year community college, junior college, or technical school?

- You probably won't need the SAT or ACT.
- Check the college's website for their entrance requirements and deadlines.
- You may be exempt from the THEA/Compass Test by your STAAR or SAT scores.

Going to an Armed Service Branch?

- Talk to a recruiter from Army, Navy, Air Force, Marines, or Coast Guard to see what criteria they have, to see what benefits they are offering, and to get registered.
- Take the ASVAB (Army Services Vocational Aptitude Battery).

Researching Colleges:

When doing research for colleges, find out the following information:

- Information about campus tours or special orientations for prospective students
- Degrees and programs the college offers?
- What courses does that college require for the degree you are seeking?
- Application process- application, deadlines, requirements
- Admission Requirements- entrance exams, minimum scores, fee requirements
- Extra-Curricular activities- clubs, organizations, intramural sports

College Entrance Exams and Test Prep Websites:

The College Board (PSAT, SAT, test prep):
collegeboard.org

ACT Testing: actstudent.org

Number 2: number2.com

Princeton Review:

princetonreview.com/college/free-sat-practice-test

4 Tests: 4tests.com

Test Prep Review:

testprepreview.com/sat_practice.htm

March 2 Success:

march2success.com/index.cfm

Test Guide: test-guide.com

Internet 4 classrooms:

internet4classrooms.com/act_sat.htm

Campus Websites:

Generation TX: gentx.org

Big Future: bigfuture.org

College View: collegeview.com

Fast Web: fastweb.com

Go College: gocollege.com

Think College: ed.gov

The Minnie Stevens Piper Foundation:

everychanceeverytexan.org/about/scholars/

Duncanville High School Go Center:

dhs.duncanvilleisd.org/go-centerz

Duncanville ISD P-TECH & T-STEM:

duncanvilleisd.org/ptech

Texas Common Application: applytexas.org

Monster College: college.monster.com

Peterson's Guide: petersons.com

Know How 2 Go: KnowHow2GO.org

Financial Aid and Scholarships

Researching Financial Aid and Scholarships:

- Financial Aid- all financial assistance given to students to attend college is financial aid.
- Scholarships- money given to students that doesn't have to be paid back.
- Grants- money that comes with some stipulations- may have to qualify for or participate in a specific program of study, may have to be paid back if student doesn't fulfill their obligation. (Pell Grant, TPEG Grant, Teach for Texas Grant)
- Student Loans- money loaned to students that has to be paid back with low interest. Subsidized- interest is paid while student is enrolled in school. Unsubsidized- interest has to be paid by the student while the student is enrolled. A re-payment plan is made for when the student is no longer a student and is employed in their career choice.
- Colleges give scholarship money to their own students- Fill out financial aid applications at the college you are thinking of going to. These are the biggest scholarships. Sometimes the financial aid deadline is before their application to the college. Do your research.
- Avoid Scholarship Scams. Do not pay anyone money to find scholarships for you. You can do the same searches. Do not pay an application fee for a scholarship application. That is a sign of a scam.

Financial Aid and Scholarships Websites:

College for All Texans:

collegeforalltexans.com

FAFSA: fafsa.ed.gov

Federal Student Loans: collegeloan.com

Fast Web: fastweb.com

The Minnie Stevens Piper Foundation:
everychanceeverytexan.org/about/scholars/

Federal Student Aid Information Center:

studentaid.ed.gov

Fin Aid: finaid.org

Adventures In Education: AIE.org

Next Step U: nextSTEPU.com



Additional Resources

colleges.com: assistance with finding the right college by areas of study

fastweb.com – Internet’s largest free scholarship search. Free registration online and weekly updates delivered to your e-mail address. Search 600,000 national scholarships and 4,000 schools, includes student tips.

brokescholar.com – free website for national scholarships

mycollegeanswers.com – strategic guidance for education planning, college preparation, admissions and aid.

fafsa.ed.gov – Application online for US Department of Education free financial student aid.

collegeboard.com – general information regarding SAT, AP tests and college searches. Check for dates given at DHS.

act.org – ACT testing information and registration. Check for dates given at DHS.

applytexas.org – complete the online Texas Common Application which covers most state colleges

ncaaclearinghouse.com – NCAA rules of eligibility for entering college as an athlete.

collegequest.com – college search website to find the right school for students.

collegenet.com – website for college searching, applying for colleges, scholarships and financial aid.

studentaid.ed.gov – federal student aid website

nces.ed.gov/collegenavigator - find colleges in the US; apply for federal student aid; consult occupational outlook handbook.

collegeispossible.com – designed to help parents and students with financial aid and finding the right college
ed.gov/students/prep/college - help with the college process

finaid.org – general information about the financial aid process

gocollege.com – college searches, financial aid, scholarships, distance learning, ACT/SAT practice tests and tips.

campuscompare.com – check out to see how your top picks for schools compare to one another.

colleges.usnews.rankingsandreviews.com - get information on comparison of schools by program.

peterson.com - college and admission information; test review information

comptroller.texas.gov/programs/educaiton - compendium of Texas colleges and financial aid for high school seniors

collegeview.com – college finder and recruiting service

careerbuilder.com – upload resume; use the patent-pending matching technology to enhance career choices; apply

careersearch.com – utilize career searches, blogs and postings to find the right career for you

texashotjobs – a guide to health careers

College Readiness Checklist for Middle Schoolers

Ask your parents or guardians to set up a savings account for college. Add to it every month.

Take the most challenging classes you can, and keep at least a “B” average.

Study daily in a quiet spot at home. When there’s no homework, you can review notes or read.

TSI

Read at least 15 minutes a day – books or other materials not related to school assignments.

Meet with your guidance counselor and ask about college readiness programs or other steps you can take.

Look online and talk to adults about careers that interest you. Research what college degrees and experience are needed for different jobs.

Ask your parents about getting a job such as yard work or babysitting. Add the money you earn to your college fund.

Join at least one school or community club or sport, or volunteer.

Talk to a teacher, parent, counselor, or other trusted adult if you are having any problems in school. Help is available!

Freshman Year

Fall

Schedule an appointment with a school guidance counselor as soon as possible. Learn the requirements for high school graduation and college admission.

Take the most challenging classes you can, and keep at least a “B” average.

TSI – PSAT School Day

Winter

Set up a saving account if you do not already have one. Add to it every month. Ask grandparents and other relatives to contribute to it if they are able.

Join at least one school or community club or sport, or find a volunteer spot in your community.

Spring

Talk to a teacher, counselor, parent, or other trusted adult if you are having any problems in school. Help is available!

Start researching colleges. Look on the websites of schools that interest you. Find out their application process and what you need to do to prepare.

Summer

Make sure your course schedule is on track for the upcoming school year.

Read at least 20 minutes a day – read something of interest to you.

Sophomore Year

Fall

Make sure to take all classes needed for graduation, plus challenging classes.

Prepare & Take the PSAT - School Day

Talk about careers with staff at your school. Take a career or interest assessment and research careers based on your results.

Winter

Begin to research colleges/universities. Check out the websites of schools that interest you.

Write down questions to ask when you make college visits.

Study for ACT and SAT tests.

Spring

Look into summer jobs, internships, or other career-related programs or experiences.

Register to take the ACT and/or SAT tests.

Check into dual credit classes.

Summer

Gather letters of recommendation from supervisors, mentors, or other contacts from your summer jobs and activities.

Make sure your course schedule for senior year is on track.

Create or update your resume, and think about creating a portfolio.

Junior Year
<u>August</u>
Stay or get involved in school or community clubs or other activities.
Keep track of the number of yours you volunteer. Add these to your college and scholarship applications.
Meet with your counselor and ask about college-related tests, financial aid, and other questions you have about college.
<u>September</u>
Take a career assessment test, then research what experience and education are required for potential careers.
Look online at colleges you are interested in. Ask your parent or guardian to take you to visit campuses.
Attend College Night at your school.
<u>October</u>
Begin to explore scholarship opportunities.
Look for information you may receive in the mail from colleges/universities after your college night. Compare offerings and programs at these schools to make the best choice for you.
Plan for taking ACT and/or SAT tests.
<u>November</u>
Take SAT, ACT, or other tests you have signed up for.
Ask college students or recent graduates you know about their college experiences.
<u>December</u>
Take SAT, ACT, or other tests you have signed up for.
Ask your guidance counselor about college courses that earn both high school and college credit.
Think about taking a summer program or class at a college or university. Prepare to apply and take admissions tests.
<u>January</u>
Check with your guidance counselor regarding your class ranking. Make adjustments as necessary.
Research careers online to help focus your areas of study.
Check into job shadowing opportunities to assist in your decision.
<u>February</u>
Be on the look-out for financial aid workshops. Plan to attend one or more.
Use a free scholarship online search service (such as FastWeb) that matches your personal information with scholarships. The more practice, you have the more likely you are to receive funds to help pay for college.
<u>March</u>
If you are taking an Advanced Placement class, ask your teachers about AP exams and how you can best prepare for them.
After Spring Break, remember to focus hard and not let your grades slip at this time. Your GPA will be of benefit to you as you apply to colleges and universities
Begin to look for a part-time or summer job so that you can add regularly to your college fund.

<u>April</u>
Look into internship programs through community organizations, or consider volunteering in a field of your interest to lessen the likelihood of having to change your major or area of study once you get into college.
If you are taking a summer college course, be sure that all enrollment paperwork and transcripts are delivered to the college by the deadline.
<u>May</u>
Find professionals to interview in a career that intrigues you.
Check your community for teen job fairs to explore careers.
Plan for a summer visit to a college or two to avoid missing your high school days.
Senior Year
<u>August</u>
Request catalogs and admission information from colleges that interest you. Plan to visit if possible.
Schedule a meeting with your guidance counselor or college advisor to talk about plans and make preparations.
<u>September</u>
Download applications or request them from colleges of your choice as well as some “reach” schools.
Attend College Night and financial aid workshops with your parents/guardians.
Plan to retake ACT and/or SAT.
Request letters of recommendation from teachers, counselors, employers, and others.
<u>October</u>
If you are applying for early decision or action, submit your application.
Check into how to get transcripts sent to colleges/universities.
<u>November</u>
Submit college/university applications and essays on time.
Check to see that letters of recommendation have been sent.
Begin actively looking for scholarships.
<u>December</u>
Get a copy of the FAFSA and begin to work on it with your parents.
Make sure colleges/universities have received all your application materials.
<u>January</u>
File the FAFSA as soon as you can after January 1.
Have your counselor send your midyear grades to colleges/universities that require them.
Be aware of the deadline for your Financial Aid Profile if you have not submitted it at this time.
<u>February</u>

If it has been four weeks or more since you submitted a FAFSA and you have not received a Student Aid Report (SAR), contact the Federal Student Aid Information Center.
Attend a financial aid workshop.
March
If you are taking Advanced Placement classes, ask your teachers or counselor about AP exams and how you can best prepare.
Keep searching for scholarships.
Look for admission decisions from colleges/universities. Pay attention to any requests for action or further information.
<u>April</u>
If a college or university has placed you on a waiting list, let them know you are still interested.
Decide which college/university you will attend. Send the enrollment form and a deposit. Pay attention to other deadlines.
<u>May</u>
Take the AP exams you have signed up for. Check to see that your scores are sent to your college/university.
Stay on top of deadlines and paperwork required by your college/university.
Start planning to attend summer orientation at your college/university.
<u>June</u>
Have your counselor send your final transcript to your college/university.
Begin planning your move to college/university.

DUNCANVILLE INDEPENDENT SCHOOL DISTRICT

2022-2023 Course Selection Guide Committee

Chairperson: Tina Bynum, Director of
Curriculum & Instruction

Tina Bynum Director of Curriculum & Instruction	Bryan Byrd Principal - Reed MS
Kendria Davis-Martin Principal - Byrd MS	Tambia Wesco Principal - Kennemer MS
Takyra Chambers Counselor - Reed MS	David Marshall Counselor - Byrd MS
Lerina Raymond Counselor - Kennemer MS	Sherretta Ellison Counselor - Kennemer MS
Karen Boss-Johnson EL Instructional Specialist	Leah Johnson Counselor - Reed MS
Shayla Pratt Director of Counseling	Pamela Brown Executive Director of Student Services
Melinda Turner Director of Information Services (PEIMS)	Pamela Thomas Director of Advanced Academics
Shalontae Payne Director of CTE/College, Career, & Military Readiness	Carla Coggins Coordinator of CTE/College, Career, & Military Readiness
Dr. Tiffanie Spencer Executive Director of Teaching and Learning	Tiffany Wilkerson Coordinator, College, Career, & Military Readiness
Jason Brumfield ELAR Coordinator	Nicole Newman ELAR Coordinator
Ryan Flint Science K-12 Coordinator	Sarah Teubner Social Studies Coordinator
Erica Reyes Executive Director of Academic Support	Tiffany LeGrand Math Coordinator
Claudia Galvan Bilingual/ESL Coordinator	Kratrina Cooper Math Coordinator
Fallon Hawthorne Director Special Education Instruction	Dr. Cynthia Jaird Executive Director of Special Education

NOTICE

It is the policy of Duncanville ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

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

It is the policy of Duncanville ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

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

ACCESS TO STUDENT RECORDS

The principal is the custodian of records for all students in the assigned school. The Superintendent is the custodian of records for students who have withdrawn or graduated.

Public Law 93-380 provides for protection of the rights and privacy of parents and students. The Duncanville Independent School District will abide by the provisions of this act by making available to parents (or eligible student) official records and files included in his/her cumulative record folder as provided by the law. Duncanville Independent School District will not release personally identifiable records or files of students without the permission of appropriate persons except as provided in the law.

Public Notification of Nondiscrimination in Career and Technical Education. Duncanville ISD offers Career and Technical Education programs in Agriculture, Food, and Natural Resources, Architecture and Construction, Arts, A/V Technology, and Communication, Business Management and Administration, Finance, Health Science, Hospitality and Tourism, Human Services, Information Technology, Law, Public Safety, Corrections, and Security, Manufacturing, Marketing, Science, Technology, Engineering and Mathematics, Transportation, Distribution, and Logistics. Admission to these programs is based on open enrollment.

It is the policy of Duncanville ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Duncanville ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.