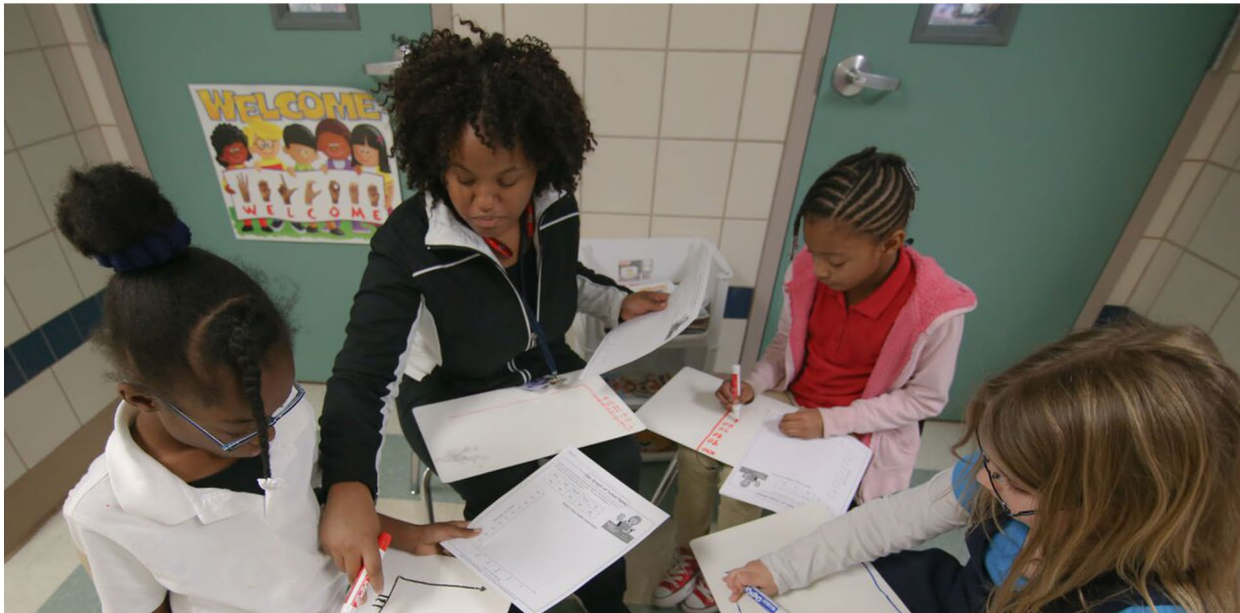
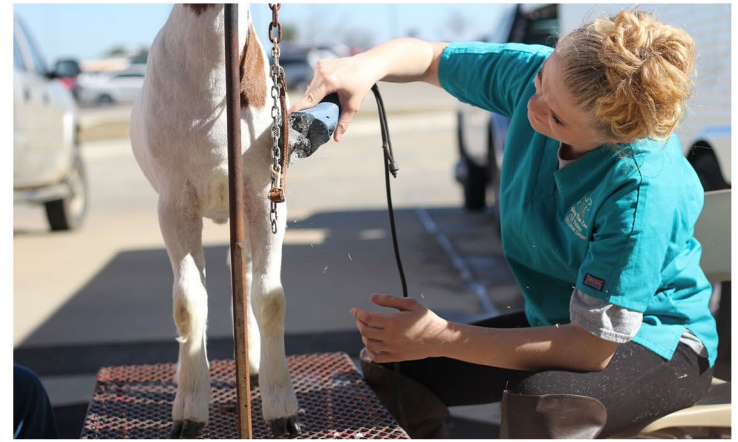
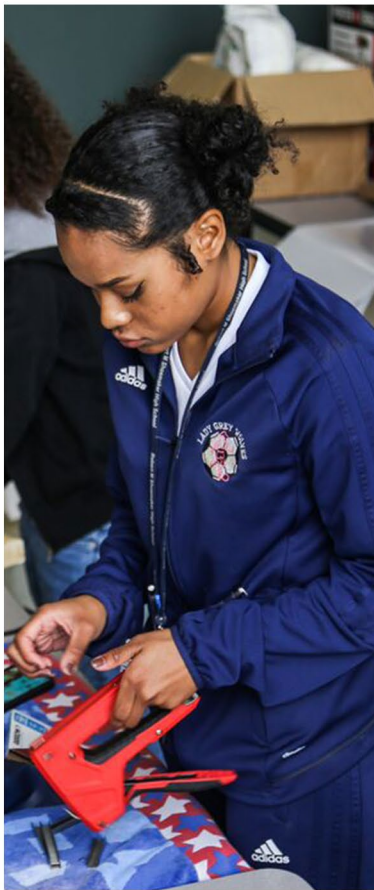




Career & Technical Education







How to Use this Guide

BLUE: (9th-12th grades):
Pre-requisite Courses offered at
Traditional High School

RED: (10th-12th grades):
Advanced Courses - May be offered
at High School or Career Center

GREEN: (11th-12th grades):
Advanced Courses offered at the
Career Center

PURPLE: (12th grade):
Practicums/Internships/Advanced
Courses offered at the Career Center

YELLOW:
Exit Points, Certificates, Licensures

KISD Career Center Introduction

The Career and Technical Education (CTE) program in Killeen Independent School District serves students by providing:

- Opportunities for students to learn current industry skills while using the latest technology
- Rigorous coursework that includes academic integration, dual credit, articulated credit, and industry certifications
- Quality professional development for staff, so that students are college and career ready
- Instructional partnerships through business and industry collaboration

The Killeen Independent School District boasts course offerings in all sixteen career clusters. Students begin career exploration in elementary school, and in eighth grade, all students identify a program of study for their graduation plan. Students are encouraged to select courses that are consistent with their college and career plans. High school students may take CTE coursework at all four traditional high schools and at the KISD Career Center with flexible full-day or half-day scheduling options.

The KISD Career Center is a fully-provisioned, state-of-the-art facility where students from all four KISD high schools may select courses that are consistent with their program of study. Prior to entering the KISD Career Center, each high school will offer students the respective prerequisite courses aligned with their career interests. Coursework at the KISD Career Center consists of business partnerships, student internships, certifications, licensures, college credit and hands-on educational experiences. These CTE programs were developed and designed in collaboration with local businesses and higher education institutions. Through these collective partnerships, the KISD Career Center provides relevant experiences to better prepare students entering college and the workforce. The KISD Career Center is a great way to prepare students of today for the highly technological and competitive workplace of tomorrow.

Career Clusters

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, AV Technology and Communications
- Business Management and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering and Mathematics (STEM)
- Transportation, Distribution and Logistics

Agriculture, Food & Natural Resources

Focuses on the essential elements of life—water, air, food, and land. The people who work in this cluster include farmers and ranchers that tend Texas crops and livestock; utility operators providing oil, electricity, and natural gas; and conservationists protecting wilderness and wildlife. They put food on our tables and turn raw materials into products we all use. For students and workers in Agriculture, Food & Natural Resources, the Earth is one giant classroom full of natural wonders to explore. If you love to be outdoors, enjoy caring for plants and animals, and want to help conserve our natural resources, then Agriculture, Food & Natural Resources could be the right career cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability, and class location.

Animal Science

- Principles of Agriculture, Food & Natural Resources (HS) [7518]

- Livestock Production (HS) [6154]
- Small Animal Management (HS) [7562]
- Equine Science (HS) [7564]

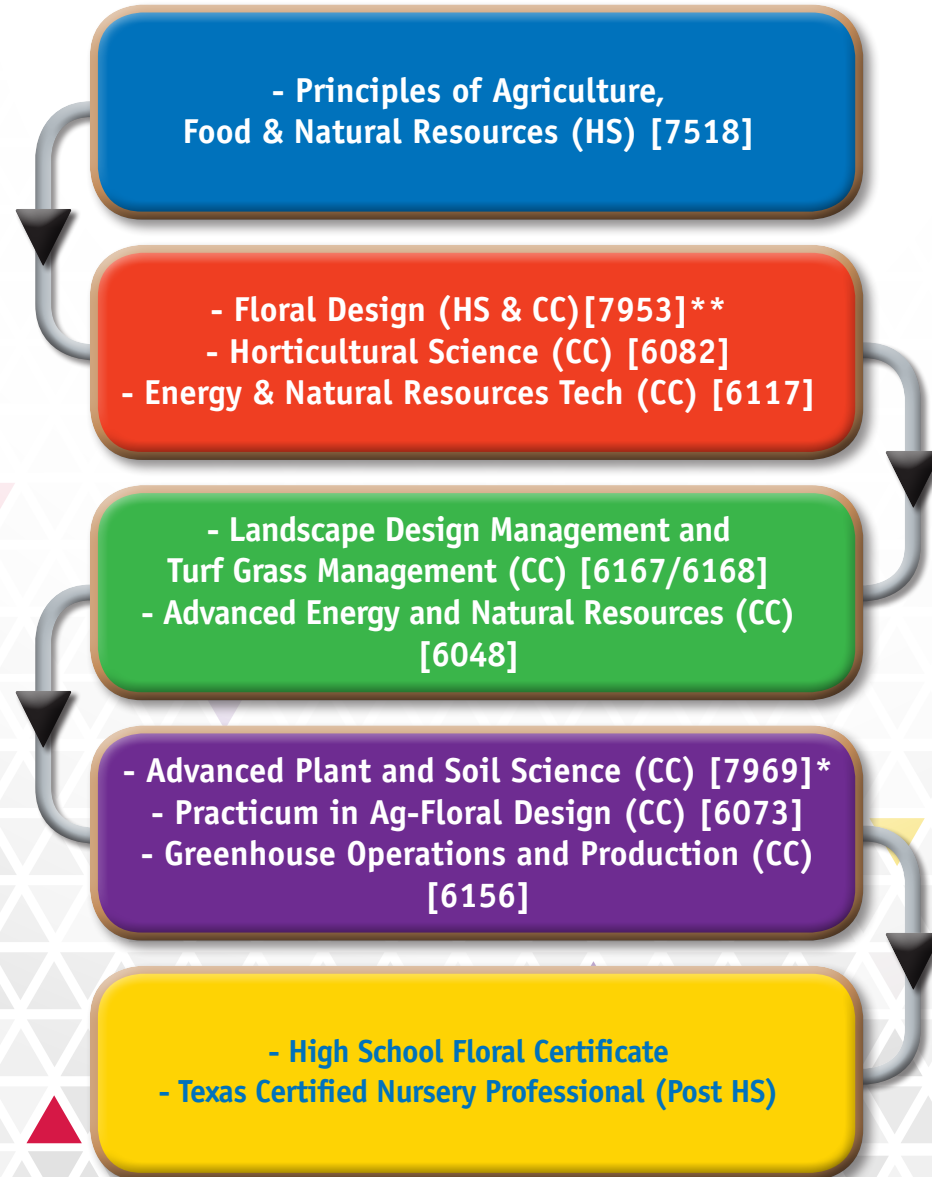
- Veterinary Medical Applications (CC) [6047]

- Advanced Animal Science (CC) [7952]*
- Practicum in Ag - Vet Science I (CC) [6071]

- Certified Veterinary Assistant

* Science Credit

Natural Resource Systems / Plant Systems



** Fine Arts Credit

* Science Credit

Architecture & Construction

Architecture

- Principles of Architecture (HS) [7520]
- Principles of Construction (HS) [6159]

- Architectural Design (CC) [6139]

- Architectural Design II (CC) [6140]

- Practicum of Architectural Design (CC)
[6141]

- Auto CAD Certificate
- Revit Certificate

Look around you. You are likely inside a room in a building, maybe your school. You are in a structure that started with an idea in an architect's head. He or she imagined how tall it would be, how many rooms it would hold, and where the walls and doorways would stand. The architect drew up plans that guided teams of people as they went about constructing the building—plumbers, electricians, masons, roofers, framers, and so on. Now that the building is finished, another team of people manage and maintain it, keeping equipment up and running, the spaces clean and organized, and the windows glistening. These are the people who work in the Architecture & Construction cluster. If you like to design and build things, tinker with tools and technology, or decorate homes and offices with flooring, paint, furniture, and art, then Architecture & Construction could be the right career cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Design

- Principles of Architecture (HS) [7520]
- Principles of Construction (HS) [6159]

- Floral Design (HS & CC) [7953]

- Interior Design I (CC) [6523]

- Interior Design II (CC) [6158]

- High School Floral Certificate
- Chief Architect Certified Apprentice /
Interior Design

Construction

- Principles of Architecture (HS) [7520]
- Principles of Construction (HS) [6159]

- Construction Technology I (CC) [6160]

- Construction Technology II (CC) [6161]

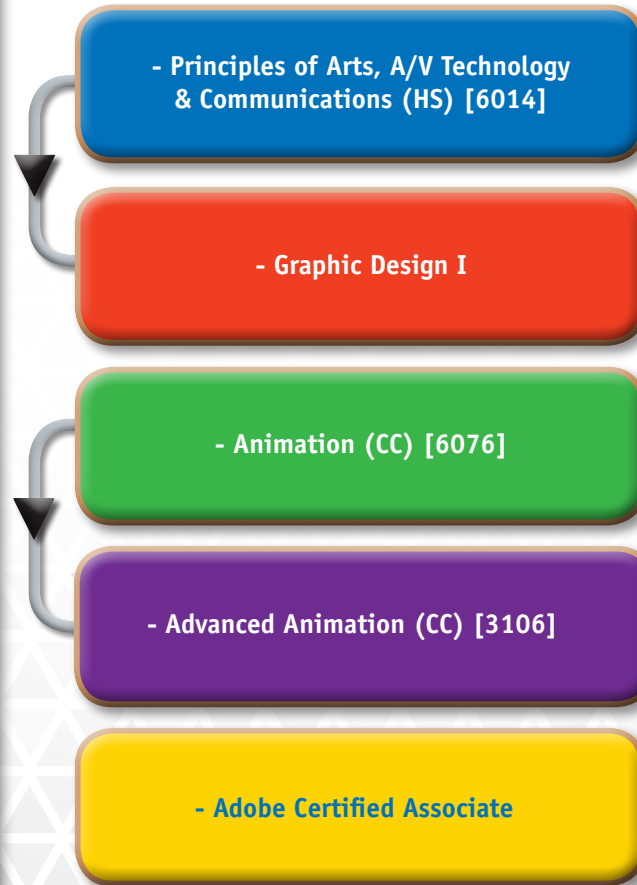
- Practicum in Construction Technology (CC)
[6162]

- NCCER Certificate
- OSHA Certificate
- SP2 Certificate

Arts, A/V Technology & Communications

As Shakespeare observed, all the world's a stage. Whether it's music, painting, drawing, sculpting, writing, dancing, or any other genre, artistic expression is all around us—on TV and radio, at the movies, in art galleries, on the Web, and in our MP3 players. People who work in the Arts, A/V Technology & Communications cluster may entertain and inform through an ever-growing array of new media forms such as cell phone ringtones, text messaging, and shared online videos. A world of audio/visual (A/V) technology and communications professionals—including producers and directors, print and electronic journalists, website designers, video game programmers, and multimedia artists—makes it all possible. If you have a calling to be creative, yearn to express yourself or love using new technologies, then Arts, A/V Technology & Communications may be the right career cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Animation



Audio/Video



Video Game Design

- Principles of Arts, A/V Technology & Communications (HS) [7610]

- Video Game Design I (CC) [7962]

- Video Game Design II (CC) [6080]

- Video Game Design III (CC) [6127]

- Unity Certified Developer

Graphic Design

- Principles of Arts, A/V Technology & Communications (HS) [6014]

- Graphic Design and Illustration I (HS & CC) [6010]

- Graphic Design and Illustration II (HS & CC) [6052]

- Practicum in Graphic Design and Illustration (CC) [6068]

- Adobe Illustrator
- Adobe Photoshop

Digital Audio Technology

- Principles of Arts, A/V Technology & Communications (HS) [6014]

- Introduction to Digital Audio Technology (CC) [6175]

- Digital Audio Technology I (CC) [6163]

- Digital Audio Technology II (CC) [6164]

- SBE Certified Radio Operator

Commercial Photography

- Principles of Arts, A/V Technology & Communications (HS) [6014]

- Commercial Photography I (CC) [6013]

- Commercial Photography II (CC) [6087]

- Practicum in Commercial Photography (CC) [6174]

- National Career Readiness Certificate

Business Management and Administration/Finance/Marketing

Business Management

Business touches everything in the world. It's behind the food you eat, the vehicles you drive, the clothes you wear- every product or service you consume is the result of a business somewhere organizing the people, money, materials, and other resources to deliver that product or service to you. The skills you learn in Business Management & Administration, Finance and Marketing can make you an attractive job applicant for any company. If you see yourself managing teams of people to get projects done, crunching numbers to keep costs down, or becoming an entrepreneur and starting your own venture, then Business Management & Administration could be the right career cluster for you. Ask your counselors about course requirements, class availability and class location.

Finance

Money makes the world go round- and there is plenty of it in Texas. In fact, if our state were its own country, it would be the 10th largest economy in the world, ranking right between Spain and South Korea. There are about 750 banks in Texas and thousands more brokerage, financial-service, insurance, and accounting firms. Professionals who work in these companies manage investments and make loans, pay for storm damage, sell bonds and stock ATM's with cash, and more. If you are good at numbers, want to play the stock market, or enjoy working with the public, the Finance could be the right career cluster for you. Ask your counselors about course requirements, class availability and class location.

Marketing

Building a career in the booming field of marketing, sales and service starts with selling you. You need to think of yourself as a "product" and define the features and benefits that will attract you "customers"- the employers that might hire you. Your resume is like an advertisement telling your story clearly and compellingly by detailing the education, experience, and skills you have that qualify you for the job. Then, with persistence, comes an interview, during which you have to dress to impress, speak and listen well, and show that you can be a valuable member of the organizations team. Finally, you need to close the deal by following up with a thank-you note that makes a positive impact on the hirer. If you want to learn how to package yourself for success, sell any type of product or service, or serve all kinds of customers, then Marketing may be the right cluster for you. Ask your counselors about course requirements, class availability and class location.

Business Management

- Principles of Business,
Marketing and Finance (HS)
[7519]

- Business Law (HS) [6183]

- Global Business (CC) [6184]
- Human Resource Management
(CC) [6185]

- Business Management (CC)
[6128]

- National Career Readiness
Certificate

Finance

- Principles of Business,
Marketing and Finance (HS)
[7519]

- Dollars and Sense (HS) [8561]
- Banking and Finance (HS)
[7980]

- Accounting I (CC) [7575]

- Accounting II (CC) [7578]
- Statistics and Business
Decision Making (CC) [7963]

- National Career Readiness
Certificate

Marketing

- Principles of Business,
Marketing and Finance (HS)
[7519]

- Advertising (CC) [7950]
- Sports and Entertainment
Marketing (CC) [7729]

- Social Media Marketing (CC)
[6148]
- Virtual Business (CC) [6187]

- Practicum of Marketing (CC)
[6147]

- National Career Readiness
Certificate
- Certified eMarketer (CeMA)
- A*S*K Fundamental Marketing
Concepts

Education & Training

Teaching, they say, is the profession that makes all other professions possible. The people who work in Education & Training instill the knowledge and skills everyone from preschoolers to adult learners needs to succeed. These caring, capable, and committed professionals help prepare their students for the many rewards and challenges that personal, professional, and civic life brings. If you yearn to learn, feel a calling to teach, or would like to work in a favorite subject area, then Education & Training could be the right career cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Teaching & Training

- Principles of Education & Training (HS) [7982]

- Human Growth & Development (HS) [6015]

- Instructional Practices in Education and Training (CC) [7959]

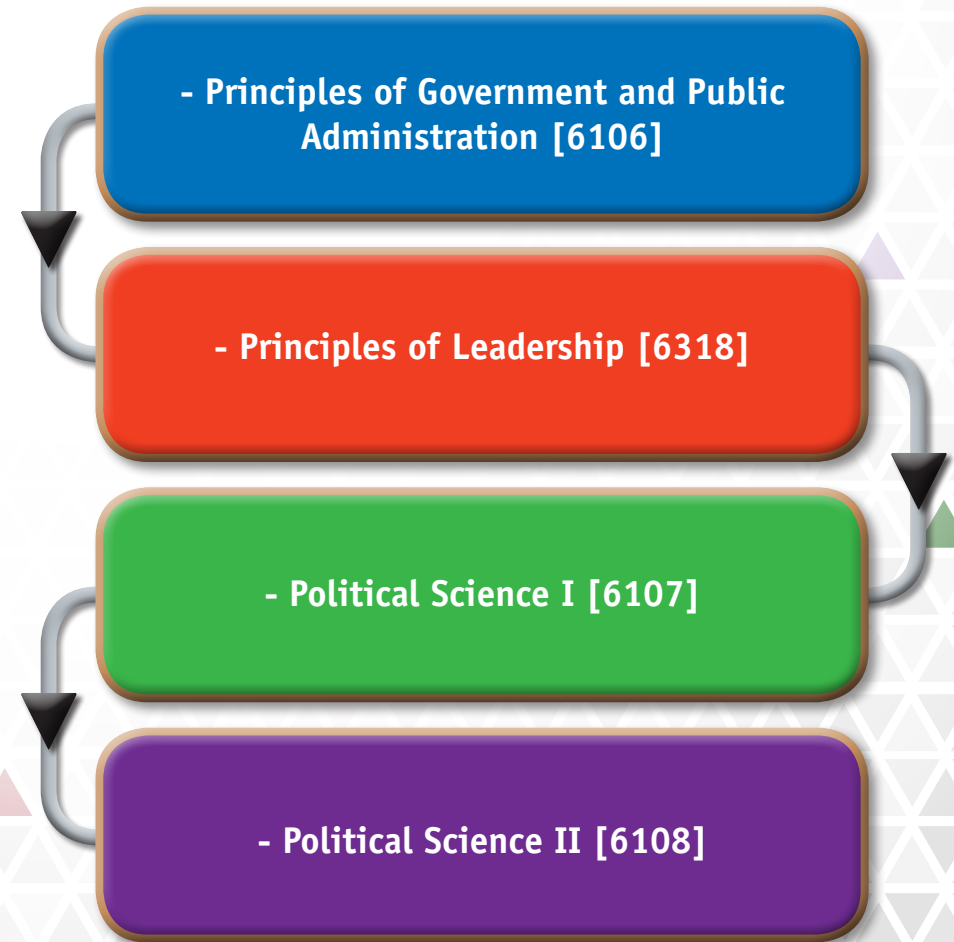
- Practicum in Education and Training (CC) [7663]

- National Career Readiness Certificate
- Educational Aide

Government and Public Administration

Government & public administration touch every member of society every day. People in public service do the work that keeps society running smoothly, from building bridges to passing laws. They collect taxes and spend public funds on projects and programs designed to benefit citizens of a town, city, state, or nation. They operate public services such as schools, parks, hospitals, airports, water and power utilities, and more. Elected officials represent the voters in government and civil servants enforce rules and regulations so that society operates equitably and safely. If you want to serve your community, run for public office, or protect our rights and freedoms, then Government & Public Administration may be the cluster for you. Ask your counselors about course requirements, class availability and class location.

Leadership Academy (Ellison HS Only)



Hospitality and Tourism

Texas is a top destination. People from around the globe come here to visit attractions such as the Alamo, Six Flags Over Texas, and Padre Island National Seashore- all ranked among the top draws for tourists in the state. Untold millions enjoy our wealth of hotels, restaurants, theaters, museums, zoos, aquariums, rodeos, campgrounds, state and national parks, racetracks, cruises, and more. The job of keeping all those people happy falls to workers in Hospitality and Tourism. Whether chefs or concierges, travel agents or tour guides, park rangers or players for sports teams, the professionals in this cluster are experts at pleasing the public. If you want to see the world, enjoy serving others, or dream of opening a restaurant or bed and breakfast someday, then Hospitality and Tourism may be the right cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Culinary



Hospitality Services



Everyone needs health care. From newborns to seniors, Texans require professionals who are experts at diagnosing and treating disease, using medical technologies, and providing preventive care. Although everyone thinks of doctors and nurses when they contemplate careers in health care, there are hundreds of other specialties available in the Health Science cluster, including technicians, skilled support personnel, dentists, and scientists. In fact, a typical medical center is a giant business with employees as varied as aides and CEOs (chief executive officers). As the baby boomer generation in Texas ages, demand for health services grows; meaning that job security in the cluster is strong. If you feel a calling to care for others, won't faint at the sight of blood, or want to pursue a profession on the cutting edge of technology, then Health Science may be the right career cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Medical Administration

- Principles of Health Science (HS) [6011]

- Human Resource Management (CC) [6185]
- Medical Administrative Support (CC) [7573]

- Medical Coding (CC) [6075]
- Anatomy and Physiology (HS & CC) [7653]*

- Practicum in Business
Medical Administration (CC) [6111]

- National Career Readiness Certificate
- Certified Billing & Coding Specialist

* Science Credit

Pharmacology



Therapeutic Services



It takes a special individual to work as a Cosmetologist. Although this career pays very well, those who choose this area generally don't do it for the money. Instead they are motivated by the desire to assist others. Cosmetologists offer help to everyone who becomes their client. The work is challenging but the reward of knowing that you improved someone's life is immense. If you feel a calling to serve your community, feel comfortable caring for people, or want to improve the lives of others, then Cosmetology could be the right career for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Cosmetology

- Principles of Human Services (HS) [6012]
- Principles of Business, Marketing and Finance (HS) [7519]

- Cosmetology I (CC) [7629]

- Cosmetology II (CC) [7630]

- Cosmetology Operator License
(State of Texas)

Information Technology

Texas is at the heart of the Information Technology Revolution. Our state is home to world-class, high-tech companies such as Texas Instruments, Dell, and Advanced Microsystems. Countless smaller firms create computer games, set up custom networks, service computer equipment, or develop and manage websites. In fact, every business in Texas needs IT expertise, either from in-house staff or from outside vendors. Keeping electronic data flowing takes both technical expertise and problem-solving savvy. If you are good at grasping how technology works, have an idea for a new website or computer game, or want a career that is always changing, then Information Technology may be the right cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Networking

- Principles of Information Technology (HS) [7610]

- Computer Maintenance (CC) [6179]

- Networking (CC) [6056]

- Practicum in Information Technology (CC) [6059]

- A+ Certificate
- Network Certificate
- Security Plus Certificate
- CCENT Certificate
- Microsoft Office Certificate(s)

Law, Public Safety, Corrections & Security

Do you enjoy helping others? Can you keep your cool in stressful situations? If so, a career as a firefighter or emergency medical technician (EMT) may be the job for you! In this program of study, workers are called upon to put out fires, treat injuries, and perform other vital functions. Firefighters and emergency service workers help protect the public. You will be given the opportunity to train with the professionals at the Killeen Fire Academy. Check with your counselor and see the suggested coursework and learning opportunities that will prepare you for an exciting and rewarding career in this field. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Firefighter

- Principles of Health Science (HS) [6011]

- Firefighter I (CC) [6191]

- Firefighter II (CC) [7728]

- Basic Structural Firefighter Certificate
- National Registered Emergency Medical Technician

Law Enforcement

- Principles of Law, Public Safety, Corrections and Security (HS) [6192]

- Court Systems and Practices (HS) [7524]
- Correctional Services (HS) [7523]

- Law Enforcement I (HS) [7510]

- Law Enforcement II (HS) [7511]
- Forensic Science (HS) [7964]

Manufacturing

Welding

- Principles of Agriculture,
Food & Natural Resources (HS) [7518]

- Agriculture, Mechanics
& Metal Technologies (CC) [7951]
- Welding I (CC) [7521]

- Welding II (CC) [7666]

- Practicum in Manufacturing - Welding
(CC) [6129]

- American Welding Society Certificate

Welders use raw materials to make things. Workers range from production-line workers in factories to supervisors overseeing global operations. This field requires individuals who can understand highly technical information and make complex decisions. Welders are responsible for creative problem solving and meeting the highest quality standards. If you like building things, can follow detailed instructions, or are good at organizing people and processes then this career is for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Science, Technology, Engineering and Mathematics (STEM)

New discoveries are made every day. Scientists, technologists, engineers, and mathematics are pushing the boundaries of human knowledge by seeking to better understand and improve the world around us. They spend their time exploring everything from vast galaxies of stars to the tiniest subatomic particles. They invent the technologies that make our lives easier and more rewarding and develop solutions to problems that threaten our future. Thanks to the men and women on the cutting edge, we know more than ever before. If you are curious about the universe, dream of exploring new worlds of knowledge, or want to solve the planet's problems, then Science, Technology, Engineering & Mathematics could be the right career cluster for you. Ask your counselors about course requirements, class availability and class location.

Engineering (Shoemaker HS Only)

- Introduction to Engineering Design [5202]
- Principles of Engineering [6502]
- Engineering Science

- Digital Electronics [5203]

- Computer Integrated Manufacturing [6501]
- Aerospace Engineering [7551]
- Civil Engineering and Architecture [6520]

- Engineering Design and Problem Solving [7967]

- Autodesk Inventor

Transportation, Distribution & Logistics

Texas is on the move. Every day, everywhere in the northern, southern, eastern, and western parts of the state, people and products travel hundreds of thousands of miles of roads, waterways, railroad tracks, and air routes—all because of those who work in Transportation, Distribution & Logistics. These professionals are responsible for ensuring that everyone and everything gets to the right place on time at the lowest possible cost. They are experts at planning and project management, increasingly using technology such as Global Positioning System (GPS) satellites and Radio Frequency Identification (RFID) tags to track the location of shipments. If you are a mover and shaker, have a talent for organization, or yearn to see new places, then Transportation, Distribution & Logistics could be the right career cluster for you. Ask your counselors about age requirements, waivers, course requirements, class availability and class location.

Automotive Collision

- Principles of Transportation Systems [6169]
- Principles of Business Marketing and Finance (HS) [7519]

- Collision Repair (CC) [6180]

- Paint and Refinishing (CC) [6181]

- Practicum in Transportation Systems
- Collision Repair and Refinishing (CC) [6182]

- I-CAR Certificate
- Automotive Service Excellence (ASE) Certificate

Automotive Technician

- Principles of Transportation Systems [6169]
- Principles of Business Marketing and Finance (HS) [7519]

- Automotive Technology I (CC) [6083]

- Automotive Technology II (CC) [6084]

- Practicum in Transportation Systems
- Automotive Technology (CC) [6063]

- Automotive Service Excellence (ASE) Certificate

WorkKeys Employability Program

WorkKeys is a job skills assessment that measures workplace skills critical to job success. These skills are valuable for any occupation – skilled or professional – at any level of education, and in any industry. Components are contextualized in the 16 Department of Labor Career Clusters. **WorkKeys** is delivered online through complete interactive learning tools for career readiness skills called **KeyTrain**. At its foundation is a targeted curriculum written specifically to help people master the applied workplace skills as defined by the **WorkKeys** system. This core curriculum is complemented by diagnostic tools, soft skills curriculum, and a powerful reporting system to form a robust career readiness learning system.

National Career Readiness Certificate

- Applied Mathematics
- Reading for Information
- Locating Information

- Levels of NCRC
 - Platinum
 - Gold
 - Silver
 - Bronze

* Resume writing, workplace ethics, interviewing, etiquette, etc. will be embedded in the KISD Career Center courses.

ACT National Career Readiness Certificate

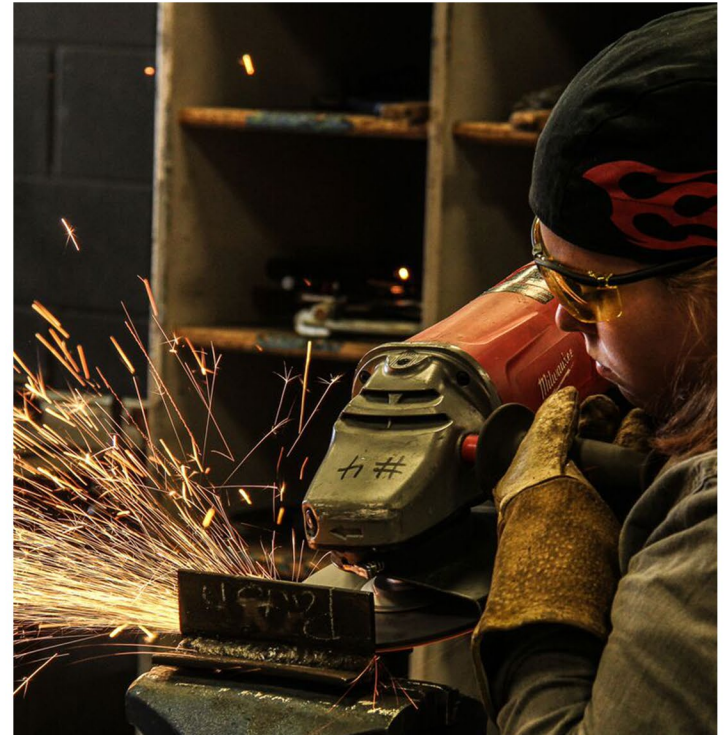
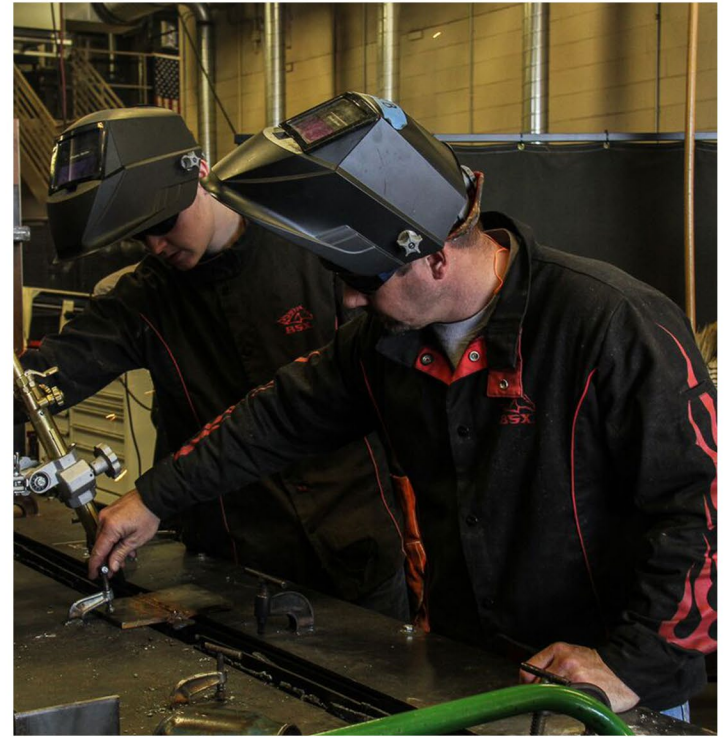
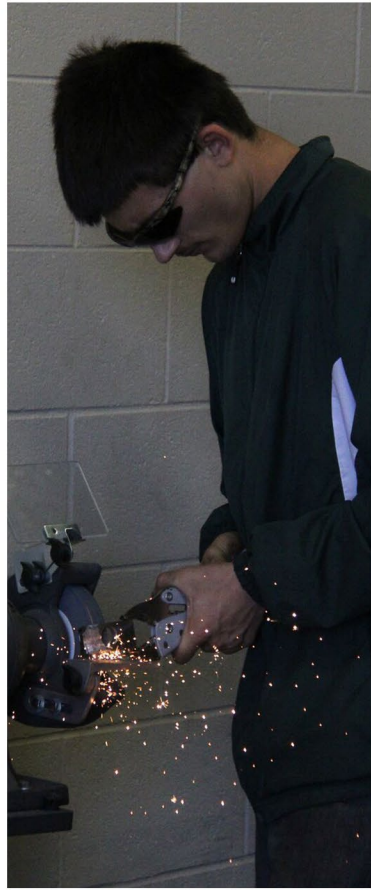
The ACT NCRC is a portable, evidence-based credential that certifies foundational skills essential for workplace success. This credential is used across all sectors of the economy and verifies the following cognitive skills:

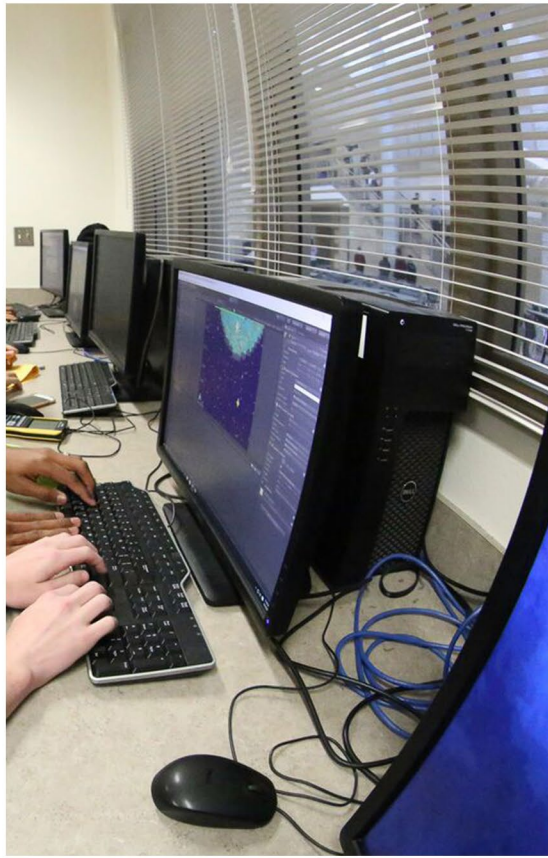
- Problem solving
- Critical thinking
- Reading and using work-related text
- Applying information from workplace documents to solve problems
- Applying mathematical reasoning to work-related problems
- Setting up and performing work-related mathematical calculations
- Locating, synthesizing, and applying information that is presented graphically
- Comparing, summarizing, and analyzing information presented in multiple related graphics

Soft Skills / Employability Skills

- Work Habits
- Communication Skills
- Workplace Effectiveness
- Business Etiquette
- Job Search

Course Description from [AchieveTexas.org](https://www.achievetexas.org/)







Our Vision

Through the implementation of a full, innovative, rigorous, comprehensive education program, KISD will provide superior learning opportunities so that upon graduation, students are prepared for success in the workforce and/or in higher education.

Killeen Independent School District

200 North WS Young Drive
Killeen, Texas 76543

www.killeenisd.org