



## **Texas Career & Technology Council**

Texas Career and Technology Council (TCTC) is an organization representing eight professional organizations of Career and Technical Education (CTE). The purpose of TCTC is to have one unified voice speaking for and supporting CTE programs. The board of TCTC is made up of two representatives of each of the organizations. This group meets twice per year. TCTC also sponsors the Best of Texas Awards.

### **Eight professional career & technology organizations make up the TCTC:**

- Association of Texas Technology Education (ATTE)
- Career and Technology Association of Texas (CTAT)
- Family and Consumer Sciences Teachers Association of Texas (FCSTAT)
- Marketing Educators of Texas (MET)
- Texas Business and Technology Educators Association (TBTEA)
- Texas Health Occupations Association (THOA)
- Texas Industrial Vocational Association (TIVA)
- Vocational Agriculture Teachers Association of Texas (VATAT)

### **Career & Technical Student Organizations (CTSO's)**

- Business Professionals of America (BPA) - Texas
- DECA, Texas Association
- Future Business Leaders of America (FBLA) - Texas
- Family, Career and Community Leaders of America (FCCLA)
- Health Occupations Students of America (HOSA)
- SkillsUSA - Texas
- Texas FFA Association
- Texas Technology Students Association (TSA)

## Career & Technical Education in Texas 2008 Update

As can be seen in the Table below<sup>1</sup>, considerable interest exists by today's students in pursuing Career and Technical courses in secondary schools.

<b>CTE Student Enrollments</b>			
<b>School Year</b>	<b>Unduplicated Number of CTE Students</b>	<b>% Change from previous year</b>	<b>% of Total Student Enrollment*</b>
1995-96	633,178	9.7%	16.9%
1996-97	661,828	4.5%	17.3%
1997-98	676,547	2.2%	17.4%
1998-99	704,123	4.1%	17.8%
1999-2000	741,806	5.4%	18.6%
2000-01	768,200	3.6%	18.9%
2001-02	802,149	4.4%	19.3%
2002-03	841,438	4.9%	19.8%
2003-04	867,300	3.1%	20.1%
2004-05	892,018	2.8%	20.3%
2005-06	914,268	2.5%	20.3%
2006-07	941,045	2.9%	20.6%

*\*While student enrollment numbers reflect Grades K-12, CTE courses are only taught in Grades 6-12. Consequently, these percentages should be larger.*

According to TEA<sup>2</sup>, between school years 1995-96 and 2005-06, career and technology programs in the public schools experienced particularly large gains in enrollment. The number of students taking a sequence of career and technology courses rose 170.0% over the 10-year period, while overall enrollment grew 19.0%. It is obvious that CTE programs represent areas of interest to Texas students. While not within the scope of this brief, a number of other studies also support the viability of professions supported by these programs as well as the use of these programs as the stepping off point for high school students seeking additional post secondary educational opportunities.

### ***Current graduation plans***

The current 4x4 Plan requires students on the Recommended and Distinguished Achievement Graduation Plans to complete 4 years of English Language Arts, Mathematics, Science and Social Studies. These requirements apply to students who entered Grade 9 in the 2007-08 school year and thereafter.

As a result, the State Board of Education increased the number of credits for graduation from 24 to 26 on the Recommended and Distinguished Achievement Graduation Plans to insure that the additional math and science credits would not take away from the number of elective courses offered. Consequently the Recommended Plan maintains 3 ½ electives and the Distinguished Achievement Plan maintains 2 ½ electives.

No changes were made to the Minimum Graduation Plan. It requires 22 credits and has 5 ½ elective credits. However, students must get permission from parent/guardian and school administrator before

<sup>1</sup> *Pocket Edition, Texas Public School Statistics, Texas Education Agency, Division of Performance Reporting*

<sup>2</sup> *"Enrollment in Texas Public Schools 2005-06"; Division of Accountability Research, Dept. of Accountability and Data Quality, Texas Education Agency, January 2007*

they can be placed on this graduation plan. As shown in the Table below<sup>3</sup>, such hurdles generally limit the number of students pursuing this track. The Recommended Plan became the “default” graduation plan in the 2004 – 05 school year.

<b>Graduates by Graduation Plan</b>			
<b>Year</b>	<b>Minimum</b>	<b>Recommended</b>	<b>Distinguished</b>
2001-02	94,163	117,996	13,008
2002-03	86,382	134,816	16,911
2003-04	77,194	147,051	19,920
2004-05	66,380	151,901	21,435
2005-06	58,504	157,626	24,355
2006-07	53,423	161,707	26,063

It is important to note that the Recommended and Distinguished Achievement Graduation Plans do not have sufficient number of electives to permit effective focusing (including, for example, licensures/certifications) for most CTE programs since CTE courses are currently electives. The exceptions where some of the required courses can also be satisfied by courses that also serve as part of a CTE curriculum are shown in the Table below<sup>4</sup>.

<b>Current CTE Options on Recommended Plan</b>		
<b>CTE Options for Credit</b>	<b>Number of Credits</b>	<b>Details</b>
Mathematics	1 credit	8 <sup>th</sup> grade Algebra I Note: Talk of requiring math in grades 9-12.
Science	1 credit	Health Science Technology: Scientific Research & Design Anatomy & Physiology of Human Systems Medical Microbiology & Pathophysiology
Science (cont'd)		Technology Education/Industrial Technology Principles of Technology I Principles of Technology II Engineering
Physical Education	1 ½ credits	2 or 3 credit CTE work-based training course.
Health Education	½ credit	1 full credit of Health Science Technology Intro to Health Science Technology Health Science Technology I Health Science Technology II
Technology Applications	1 credit	Business Education Business Computer Information Systems I or II, Business Computer Programming Telecommunications & Networking Business Image Management &

<sup>3</sup> *Enrollment in Texas Public Schools 2005-06; Division of Accountability Research, Dept. of Accountability and Data Quality, Texas Education Agency, January 2007.*

<sup>4</sup> *Texas Administrative Code, Chapter 74, Curriculum Requirements, Subchapter F, Graduation Requirements, Beginning with School Year 2007-2008.*

<http://www.tea.state.tx.us/curriculum/SBSGradRequirements0708.pdf#xml=http://www.tea.state.tx.us/cgi/texis/webinator/search/xml.txt?query=%22Texas+State+Graduation+Requirements%22&db=db&id=90d03aeb70b0dc1d>

		Multimedia Technology Education/Industrial Technology Computer Applications Technology systems Communications Graphics Computer Multimedia Animation Technology  Or The completion of 3 credits (for students participating in a coherent sequence of CTE courses or who are enrolled in a Tech Prep high school plan of study) consisting of 2 or more state-approved CTE courses.
Electives	3 ½ credits	Any CTE courses

There are, however, a large number of other courses that could serve the dual function of providing the 4x4 foundation while also serving as instructional courses in specific CTE topical areas. Many educators argue that having such relevancy in, for example, geometry as is taught in a construction or architecture course not only enhances student interest but also improves retention.

HB 3485 (passed 2007 legislative session) is a good start towards flexibility and options but is limited to only two credits for the 4<sup>th</sup> year of science and the 4<sup>th</sup> year of math.

There are currently numerous CTE courses that should be identified as options for credit in other subject areas. Students should have flexibility and options to choose courses that are in his/her field of interests and career goals.

After the CTE TEKS are rewritten, other courses created and/or updated should also be qualified as options for credit in other subject areas.

<b>CTE Courses Can Provide Course Options in Many Areas of Study</b>			
Science	Mathematics	Social Studies	Economics
Speech	Health	Fine Arts	Technology Applications

It is the simple intent of a CTE Graduation Plan that such course options be allowed so that the large number of students interested in professions encompassed by CTE disciplines can have the opportunity to efficiently pursue their goals within the State's education structure.

In a Policy Brief by Achieve, Inc., (December 2007) they discuss aligning high school graduation requirements with the real world. This is an interesting article, and in it they note, "States should carefully consider how the new requirements can allow districts and schools to look beyond a traditional series of college-prep courses to those that take a more applied or integrated approach."

Contact Information

## Contact Information

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**Abilene Independent School District**

One AISD Center • 241 Pine Street • Abilene, Texas 79601

May 14, 2008

It is with genuine pleasure that I can report great success in the career and technical education programs in the Abilene Independent School District.

A comprehensive CTE program begins in the eighth grade during which all students take Career Discovery, an integrated Career Connections and Keyboarding class. During this year students investigate possible career and postsecondary options, visit two postsecondary institutions in Abilene, complete career interest surveys and aptitude assessments, and receive individual guidance in creating their high school graduation plans.

Following the *AchieveTexas* initiative, AISD offers thirty-two different career pathways in all sixteen career clusters. These pathways are customized to AISD courses and are highlighted in the Abilene Independent School District *Program Guide and Career Pathways—2008-2009*. These pathways have been included in the AISD program guides since 2006-2007.

AISD career and technical education has also been successful in retaining students for graduation. While the district dropout rate for 2005-2006 was 3.6%, the retention rate for CTE students was 97.8% for a 2.2% dropout rate.

AISD has also had success in increasing the number of industry certifications earned by CTE students. In 2004-2005 a total of 76 students completed industry certifications in six certification and licensure areas. In 2005-2006 the number increased 68% to a total of 128 certifications. Last year, in 2006-2007, a total of 347 certifications were earned by AISD students in eight certification areas for an increase of 357% over two years. Additional opportunities will be available to students next year as AISD will offer certifications for MOS, Certified Customer Service, Emergency Care Attendant, National Health Care Foundation Skill Standards, ServSafe, A-plus, as well as all areas of NCCER (National Center for Construction Education and Research).

The highlight of our success has been the opening of Holland Medical High School, a unique collaborative partnership between Hardin-Simmons University—a private, higher-education institution—with the Abilene Independent School District—a K-12 public school system. Built on the northeast corner of the beautiful HSU campus, Med High is located near the largest medical community in West Texas, including the adjacent Hendrick Health System. In its first year of operation Holland provided instruction for over 200 AISD students who completed training as certified nurse aids, feeding assistants, pharmacy techs, and phlebotomy technicians. Advanced science and integrated English/Language Arts courses were offered at Med High to assist students in fulfilling core graduation requirements.

In 2006-2007 over 1,100 AISD students (or 43% of all 10<sup>th</sup> through 12<sup>th</sup> graders) received college credit through Tech Prep for a total of 2,863 college credits. (If attending Cisco Junior College, students would realize a tuition savings of \$423,798, or a savings of \$186,127.50 if enrolled in Texas State Technical College.) An additional 73 CTE students earned transcribed dual college credit for a total of 389 college credits.

Thank you for the opportunity to detail our AISD CTE successes.

Sincerely,

Dr. Virginia L. Mosier

Virginia L. Mosier, Ph.D.  
Executive Director  
Career and Technical Education  
Abilene Independent School District

## **Allen ISD Allen High School**

The Allen ISD has a "rigorous" CTE program in operation utilizing an 8-period day with students taking seven courses. This offers a wider opportunity to schedule courses based on choices made by the students.

Allen High School offers the innovative program, Ready, Set, Teach I & II –and the Elementary Student Teacher Assistant.

In the Hospitality and Tourism Cluster, Allen High School has expanded to include a Culinary Arts program as well as Hospitality I & II. Plans are in the works to open a full-service restaurant, which will be operated by the students. This restaurant will not only serve the school personnel but will also be open to the community.

Family & Consumer Sciences Career Preparation, Diversified Career Prep and Marketing Career Prep are also offered. The students enrolled in these courses usually progress into full-time jobs when they graduate or continue to work while attending college.

In Photography and Media Technology, students have an opportunity to participate in the production of student-led broadcast programs. In addition to photography skills, the commercial photography students develop skills in composition, print making and finishing. These students are given opportunities to complete internships in the community in the field of photography.

The Architectural program includes courses in Electricity, Electronics, and Robotics. Internships are also available through these programs.

The certification program has been expanded in many areas. Certifications are offered in CAN, EMT, MOS, Adobe, ServeSafe®, A+ Technology, OSHA and Vet Tech. Offering these certifications to high school students allows advanced training in a chosen career field and gives students a greater opportunity for future employment.

As part of the AchieveTexas initiative, all types of student organizations are open to the students for participation, such as FCCLA, DECA, FFA and HOSA.

The HOSA organization recently has 22 state winners and 11 national winners.

All of these CTSO's are active and have participation at the local, state and national level.

There is no doubt the Allen Independent School District is progressively pursuing Career and Technical Education for all students. There is a \$23 million dollar bond election scheduled for November 2009, which if passed, will allow for the construction of a new Career and Technology Center.

Carole Jernigan

Marsha Canup

Sue Boyette

Dan Reinhard

## **Whats Going On In Career and Technical Education In The Brenham ISD?**

- CTE offers 90 elective courses in 8 different career pathways.
- Areas of CTE: Agricultural Science, Family Consumer Science, Health Science, Marketing Education, Technology Education, Trade and Industrial Education, Business Education, Criminal Justice, Automotive Technology, Construction Trades, Media Technology and more.
- BHS CTE students scored above the state average in all TAKS areas.
- 59.2% of the BHS students were enrolled in a CTE class in the fall 2006 semester.
- CTE offers 11 courses, which are articulated with Blinn College – tuition free and college credit.
- CTE offers 20 courses, which are articulated statewide with colleges – tuition free and college credit.
- CTE now offers seven courses (17 sections) in which students can receive CareerSafe/OSHA certification – free. Fifty-nine students were certified in a pilot program in the spring 2007 semester.
- HST students received the following certifications: feeding assistant – 2; nurse aide – 5; CareerSafe/OSHA – 11; adult, infant, child CPR, adult AED, first aid – 16.
- 131 CTE students work and learn through career prep/co-op classes – real on the job training involves 86 local businesses. Fall 2006.
- CTE coordinates Junior Achievement programs in the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> grades. Involves 120 community volunteers.
- CTE coordinates the 5<sup>th</sup> grade JA Biztown (formerly Exchange City) program. Involves 64 community volunteers and parents.
- CTE youth organizations sponsor 64 community service projects.
- CTE youth organizations sponsor student scholarships.
- Construction trades students are building a 1372 square foot home – a real house. Fall 2007 - This is the fifth home built.
- Aquatic science students' laboratory is a real 30'x100' commercial pond.
- CTE health science students in clinical rotation train in a real health business location.
- CTE career investigation classes are taught in the 7<sup>th</sup> and 8<sup>th</sup> grade.
- CTE "Ready, Set, Teach" students laboratory is BISD classrooms – real educational experiences for exploring the field of education.
- 350+ BJHS eighth grade students attend a "Youth to Career Fair" at Reed Arena.
- Technology Systems is taught in a modular computer lab – 20 different modules. Aerodynamics, robotics, CNC mill & lathe, pneumatics, etc.
- CTE uses "Kuder" – career interest survey for 8<sup>th</sup> grade – adult. Also, 8<sup>th</sup> grade students plan their 4-year high school plan of study with BHS courses listed by career clusters.
- CTE elective courses are aligned with the new "Texas Achieve" initiative.
- CTE sponsors a "Career and Job Opportunities Fair" to BHS students – involves approximately 40 local businesses.
- CTE, in conjunction with the armed services, administer the ASVAB to 11<sup>th</sup> grade students for their career planning.
- CTE department has 19 full-time and 6 part-time teachers, one administrator, one career counselor, and two career assistants.
- CTE sponsors a Five Star Teacher Internship program. This past summer, eleven BHS and BJHS teachers toured eight manufacturing businesses and wrote curriculum relating to their business experiences to their curriculum area.

Prepared by: Mike Sommerlatte, CTE Director, October 1, 2007



## Eula Independent School District

TO: The Texas Senate Education Committee

The Eula School District addresses the economic and workforce needs of this state by providing high quality training in many Career and Technical Education program areas.

The Computer and Business classes create realistic projects that allow students to develop their skills far beyond basic word processing and gaming. After successful completion of the computer classes offered at Eula, a student will be able to do the following:

- Create effective documents using sophisticated word processing techniques
- Create spreadsheets, which use formulas, functions and formatting to organize and display information using charts and grids
- Create databases to organize, maintaining and query information
- Create a wide variety of desktop publishing documents for all types of requirements
- Create professional, effective electronic presentations
- Use digital graphic editing software to create and enhance digital images and animations
- Create and edit video footage to produce professional, effective short movies
- Use web development software and HTML authoring to create and maintain Web sites, including the school's Web site

The Family and Consumer Sciences (FCS) courses are taught with the integration of technology in the classroom. The students have access to computers in the classroom and in shared computer labs. Research and reports are all generated through the use of the Internet and computer applications and the FCS classroom has state of the art equipment in addition to computers to encourage learning through technology.

The FCS Parenting and Child Development program uses computerized babies that allows the students to experience realistic situations that teaches them that being a parent is a time consuming, demanding, major responsibility. The parenting skills learned in this course are invaluable later in life.

The Family and Consumer Sciences curriculum is essential in helping the economic welfare of the state because the skills learned in many of the courses teach the student what the expectations and ethics are in the workplace as well as the skills that help them to manage their day-to-day life. The ability to manage one's day-to-day life involves making healthy food choices, budgeting money, balancing a check book, and making wise consumer purchases to name only a few. Having these common sense skills makes a much more responsible person, who can come to work, ready to work. These skills are what employers have indicated they seek when hiring employees.

The FCS Diversified Career Preparation class requires students to generate an electronic portfolio to use as they seek and become part of the economic force. The portfolio consists of a resume and letters that can be adapted to different job situations. Monitored and graded job success is also a part of the curriculum

Jan Hall  
Family and Consumer Sciences Educator  
Eula High School

## **Everman ISD**

Everman ISD Career and Technical Education (CTE) is dedicated to providing all students with quality instruction in increased CTE offerings and relevant real world experiences through community and industry partnership to prepare them for post-secondary study and/or career opportunities in the global marketplace.

In 2007-2008 a Career and Technical Education task force completed an exhaustive program analysis of the current CTE program that revealed strengths and areas for improvement. The task force used this information to develop a short range (one-year) and long range (three to five year) plan for expansion of the CTE program.

One important component of the plan of action was the needed expansion of CTE courses at the junior high level. In addition to Keyboarding and Career Investigations, which are currently offered, the district plans to offer BCIS I and Web mastering at the junior high in the future. Some labs are available for these courses and the certified personnel are in place for this addition. The goal of this expansion is to add approximately 175 students to the junior high CTE program. This expansion will enable junior high students to have more flexibility in their future high school schedules to continue through their tech prep pathways and enable the high school to expand the numbers of programs offered.

In addition to the three career pathways currently offered, in 2008-2009, Everman ISD will offer the innovative program, "Ready, Set, Teach!"; Computer Science; and the Diversified Career Preparation program. The Diversified Career Preparation program will include a community/business and CTE partnership designed to increase student and parent awareness of the many careers available in the local, state and global marketplace and the knowledge and skills required for these careers.

Everman ISD has a close working relationship with the Tarrant County College Tech Prep program and in the 2008-2009 school year, all CTE teachers at Everman High School will be state articulated in at least two subject areas. This will promote higher education among the students and increase the rigor and intensity of the CTE courses.

Submitted by:  
Lisa Hollinger  
Family and Consumer Sciences Educator  
Everman Joe C. Bean High School

## Lockhart ISD

Lockhart ISD is now in its 3<sup>rd</sup> year contracting with Austin Community College for a CTE Administrator to assist with articulation agreements, applying and administering federal funds, establishing new programs, submitting innovative courses, providing professional development opportunities, and acquisition of equipment. During this time we have 6 program areas with articulation agreements for numerous courses. Several of our teachers are certified to award ATC credits. We are proud to say that our CTE enrollment has increased and our students are taking advantage of our courses.

Coherent sequences of courses have been established and our counselors understand the need for students to move through these courses in a specific order to end up with skills that could prepare them for a job. We have a new classroom set-up, with labs and a commercial kitchen and several students have followed the sequence of courses and are now enrolled in culinary schools. We are proud of this, since according to information from the schools, food service careers rank second as the most jobs available. The military was first.

Our enrollment is projected to increase in the 2008-2009 school year due to implementing an 8-period day. The innovative "Ready, Set, Teach!" program was offered this year. This program has generated a great deal of interest - next year's enrollment is doubled. The "Ready, Set, Teach!" students have been asked to conduct mini lessons at our Kindergarten, as well as prepare materials for their teachers/supervisors at their job sites.

Several new innovative courses will be offered next year: Introduction to Veterinary Assistant Technician, Veterinary Medical Assistant I, and Medical Forensics. Enrollments for these courses are very high.

Teachers are encouraged to get ATC certified, as well to attend articulation workshops. At the articulation workshops teachers are given college level curriculum materials and course syllabus to use in their articulated courses.

**Nacogdoches High School  
4310 Appleby Sand Road  
936-564-2466**

**CTE Programs**

Nacogdoches High School offers a wide variety of CTE programs designed to offer students either a certification or license or which would lead to employment immediately after high school. In addition to this, NHS offers classes that are articulated with post secondary institutions as well as dual credit courses.

After studying the workforce development data and determining what jobs were in highest demand, our school made a decision to convert the existing Ag lab into a total Industry standard welding lab this past summer. Research was done to determine the type of machines that would be used in the workplace and a lab with 16 stations was created. Each of the three Agriculture teachers was then sent to be trained and hold National Center for Construction Education and Research certifications for both Welding Instruction and Construction Technology. A former building trades shop has been transformed into a construction shop. This decision was made because of the demand for workers not only in the East Texas area by such companies as Eastman, but also to help fill the demand for employees along the Texas coast from Houston to the Golden Triangle area, which is only about two hours from our location.

As a result of the need for additional medical professionals, we work with Angelina College and have an instructor come to our campus to offer Certified Nurse Aide instruction. Since we already work with both hospitals in our town with the Health Science rotation classes, both have committed to paying for these Nurse Aides to go to college and become Registered Nurses in exchange for a commitment to work for each respective hospital for a specified period of time.

Due to the continuing demand for teachers, especially Bilingual teachers, we have increased the size of our Ready Set Teach classes in the Family and Consumer Sciences Department. Currently we have a commitment from our school district to employ students in aide positions, both bilingual and traditional aide positions. These students will be able to get their certifications as Educational Aide I, and after working as an aide for one year will be able to take advantage of the program which assists aides in getting their college degree. As a result of this we will be "growing our own teacher". For those who want to become a teacher the traditional way, we have a coherent sequence of courses that easily allow students to determine if they are on the right track studying Early Childhood Education.

We continue to provide the increasing technology market with students who are trained in our classes that use Autodesk Design Academy, Autodesk 3DS Max Animation Academy, Adobe Photoshop, Dreamweaver and Flash Pro.

The Auto Mechanics program at our school is NATEF certified. This is a very rigorous certification that not all programs can achieve. We are quite proud of the fact that we were able to achieve this and also the growing need for Mechanics in our area are easily able to employ these students who exit this program. In addition to this, students in Auto Mechanics and Agriculture also are OSHA trained.

Also in the FCS department, the Culinary Arts classes are meeting the need for students to be trained in the finer points of food service, with emphasis on safety. A ServSafe certification is available to these students in Culinary Arts I and II.

The Cosmetology department offers the students with the opportunity to obtain a Cosmetology License and has worked closely with the Texas Department of Licensing and Regulation to make sure that all facilities and curriculum is adequate to prepare these students for this license.

The CTE teachers have worked with the academic teachers in integrating CTE and academics especially Algebra and Agriculture; Physics and Industrial Technology/Technology Systems; Health Science and Anatomy and Physiology, Family and Consumer Sciences – Child Development Genetics and Biology; Agriculture and Geometry to mention a few.

**Prairie Valley ISD**  
**Nocona Texas**

**Contact JoAnn Sicking – (jsicking@yahoo.com)**

**Family and Consumer Sciences - Grades 6-8, Grades 9-12 (electives available)**

Plan and implement school wide projects in nutrition and exercise relating to **obesity in children** by teaching healthy food identification and serving sizes to elementary students and emphasizing the importance of good sleep habits and eating a healthy breakfast as well. Students prepared entertaining programs using hand made puppets and writing scripts.

Study full-scale nutrition/exercise needs relating to **heart disease, diabetes** and other common diseases and prepared brochures to distribute in the community.

Target drug awareness issues with emphasis on **methamphetamines** in the local community, to keep students “away” from drugs and educating parents on current trends by using skits and speech presentations, contests and recognition.

Implement outreach programs to family life centers and local nursing homes where students interact and meet the **needs of the elderly and homeless women and children** with short personal visits; provide needed personal items and to plan social events for the centers.

Address bullying issues on campus by educating other students using surveys, research, peer mentoring and self-help **tactics for responding to bullying**.

Integrate local community service by collecting and donating over 1600 items of **food for the needy** at Thanksgiving and Christmas.

Practice interpersonal communication skills emphasizing the importance of better **communication with parents** and other family members and learning good **decision making** and **problem solving** skills. Using real life scenarios, students learn about combining roles of wage earners, family members and community leaders common both in and outside the classroom

Study **rights and responsibilities of both parents**, single or married with families while learning about childcare and guidance techniques.

Implement **child safety** programs for home, school and community environments during Halloween season while incorporating fundraising for world hunger with groups such as UNICEF and HEIFER projects as opposed to candy or treats.

Plan and implement family safety with projects on **seat belt usage, child restraint laws** and **bicycle safety**.

Create handmade hats for **cancer patients** and lap quilts for hospitals.

Gain **leadership** skills and **self-esteem** through FCCLA involvement and participate in competitive activities at the local, state and national level.



**SAN ANGELO**

INDEPENDENT SCHOOL DISTRICT

**SAN ANGELO INDEPENDENT  
SCHOOL DISTRICT  
Career & Technical Education**

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May 14, 2008

To The Texas Senate Education Committee:

San Angelo ISD (SAISD) is excited to share with you the successes and challenges of our Career and Technical Education (CTE) programs here in San Angelo. Our programs are very strong, have good community and business support and students are leaving the CTE programs better prepared and more equipped to continue their education and training.

San Angelo has embraced the development of a West Texas Training Center which is a partnership for workforce training and higher education. SAISD, Howard College and Angelo State University along with the City of San Angelo have a wonderful working partnership that is producing a trained workforce and promoting additional training and education for all students. The CTE programs at the high school level are rigorous, challenging and we are already having employers in our city that are hiring the high school graduates for higher than average wages and paying for their college and training. It is a win for everyone and a model to be duplicated.

We also have many, many students that are continuing their education with scholarship earned through their CTE programs. Just this year we have several Culinary Arts seniors that have acquired over \$154,000 in scholarships. All of these students leave with industry certifications, employment skills, and college transcript hours. Many of Agriculture Science students receive full scholarships due to training received in their CTE classes. Another group of students that will be very important to all of us in our futures are our Health Science Education students. 100% of our senior students passed their Certified Nursing Associate exam and will leave the program with college hours. CTE also provides exploration for younger students to learn about various skills and trades, work ethic, employability opportunities and the ability to learn leadership skills and have a sense of belonging to a group. All of this adds up to lower drop out rates and more personal relationships with students that help them grow and mature into productive citizens.

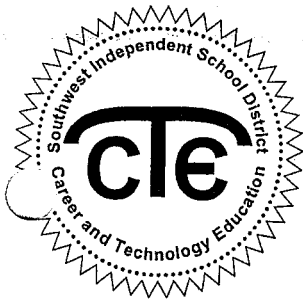
Challenges include creative scheduling in order to meet all academic requirements and include the CTE opportunities for students. Weighted funding for CTE programs is essential for these programs to meet industry standards and provide the training opportunities necessary to compete in this global economy. Courses such as our Business Computer Information Systems course should be offered for high school credit at the 7<sup>th</sup>-8<sup>th</sup> grade but because of the funding that would be lost by moving it there, we are unable to provide that much needed training opportunity for our students. With the loss of weighted funding from moving it to 8<sup>th</sup> grade, we could not afford the software, computer upgrades and refresh that would be necessary to sustain the program.

SAISD is very proud of our CTE programs. We have wonderful success stories about our students and teachers. We welcome visitors and would love to visit more about the accomplishments for our programs.

Respectfully yours,

Joann Walter, CTE Director

**Dr. Carol Ann Bonds, Superintendent \* 1621 University \* San Angelo, TX 76904**



# Southwest Independent School District Career & Technology Center

Judy Beloit Newman  
Career & Technical  
Education Director

To Whom It May Concern:

Career & Technical Education programs provide opportunities for students to identify their career of choice prior to graduation. Exploratory programs provide opportunities for students to research and review career interest. This exploratory time can be instrumental in the planning of their future.

The time spent exploring careers, identifying their interest, as well as, identifying those careers not their area of interest, is time well spent. These activities assist them in setting their goals for a lifelong learning experience.

Increased requirements (4x4) allow less time for Career & Technical education courses, however careful planning allows students to participate in some CTE courses although they may not be able to "explore" as many as they would like. Substitutions and waivers for PE, Health and technology applications allow some flexibility. Additional opportunities need to be developed.

Southwest High School was able to provide Certified Nurse Assistant training by utilizing TAKS testing days for seniors in Health Science classes to participate in the training and testing for Certified Nurse Assistant. The students attended classes during TAKS testing as well as two student holidays. This enthusiasm and motivation on the part of the students indicated they are interested in their future.

It is indeed challenging to meet all the requirements for graduation and participate in career related classes, however with careful planning it can happen. The counselor and their use of career interest assessment is key to providing a schedule to meet the needs and interest of the students.

Respectfully,

Judy Beloit Newman

11914 Dragon Lane  
San Antonio, Texas 78252  
Phone: 210.622-4520  
Fax: 210.622-4521

## Temple ISD

Temple ISD offers four Programs of Study modeled from *AchieveTexas* that encompass the Family and Consumer Sciences curriculum. The over-arching umbrella is called the Institute of Study for Education & Training, Hospitality & Tourism, and Human Services.

All of the career pathways start with the FCS course Personal and Family Development (PFD) in the freshman year. In the senior year, the student is required to complete a capstone project and have a total of four credits in their Program of Study in order to “graduate” from the Institute and receive recognition and a cord at the high school graduation. An option during the senior year is to take Diversified Career Preparation (DCP) in addition to or in place of the last class in the pathway.

The Programs of Study are:

- **Teaching & Training**
  - 9<sup>th</sup>-PFD; 10<sup>th</sup>-Preparation for Parenting & Child Development;
  - 11<sup>th</sup> – Ready, Set, Teach! I; 12<sup>th</sup> – Ready, Set, Teach II and/or DCP.
- **Restaurant and Food/Beverages Services**
  - 9<sup>th</sup> – PFD; 10<sup>th</sup> – Nutrition & Food Science and Food Science and Technology; 11<sup>th</sup> – Culinary Arts I; 12<sup>th</sup> – Culinary Arts II and/or DCP.
- **Travel & Tourism**
  - 9<sup>th</sup> – PFD; 10<sup>th</sup> – Nutrition & Food Science and Food Science and Technology; 11<sup>th</sup> – Hospitality Services I; 12<sup>th</sup> – Hospitality Services II and/or DCP.
- **Personal Care Services**
  - 9<sup>th</sup> – PFD; 10<sup>th</sup> – BCIS; 11<sup>th</sup> – Cosmetology I; 12<sup>th</sup> – Cosmetology II and/or DCP.

These programs benefit our students and the community in many ways. We have formed great partnerships with local businesses and the students work in these businesses as they complete the programs. The students gain job specific skills as well as transferable job skills through the hard work of our teachers.

Alison C. Belliveau  
Career and Technical Director  
Temple ISD





## Three Rivers High School

108 North School Road  
Three Rivers, TX 78071

Dianne Kuenstler  
Family & Consumer Sciences Dept.  
Phone: 361 - 786-3531 Ext. \*413  
e-mail: [dkuenstler@trisd.esc2.net](mailto:dkuenstler@trisd.esc2.net)

The Three Rivers Independent School District regards career and technical education programs of utmost importance to the students who are enrolled in this district. Therefore, last year they adopted a policy changing the school day from a seven period day to an eight period day. By doing this, they were able to create a schedule that was more beneficial to students seeking to use CTE classes as electives, and as a result, all CTE classes saw major increases in enrollment.

We are fortunate to have many business representatives who take an active part in our teaching. For instance, in the Housing and Interior Design classes, two contractors/builders make it a point to invite my classes to tour homes they have under construction. These tours are done both in the early stages of construction, and then again when the homes are finished. The contractors share points with them from the actual drawing of the floor plan to building practices and finances.

Being a certified Serve Safe Instructor allows the students to receive certification in the Nutrition and Food Sciences courses, which in turn enables them to go straight to work in most food establishments. In addition, I have the County Health Inspector teach the Food Handlers' Certification training, which is required for employment in most food establishments in Live Oak County. He then certifies them as licensed food handlers. My Child Development students work with elementary students, enabling them to qualify for the statewide-articulated credit. The Consumer and Family Economics students benefit from visits to the local bank and car dealership for extensive education on the use of credit. When my students are working on job applications and interviews, I can pick up the phone and any business person I call agrees to conduct mock interviews with the students, fine-tuning their interviewing skills, as well as filling out the application form. They specifically address things they identify in the process as potential problems or mistakes. We are so fortunate to have these and many more individuals in our community who take such an interest in our program, and are so willing to help. In addition, I cannot say enough for the parents and administrators who also take an active part.

For further information, feel free to contact:  
Mac Johanson, Superintendent: (361) 786-3626  
Kenneth Rohrbach, High School Principal: (361) 786-3531 EXT: \*403  
Jakelynn Crawford, High School Counselor: (361) 786-3531 EXT: \*405

Sincerely,

*Dianne Kuenstler*  
Family & Consumer Sciences Teacher