



SINTON H S
T-STEM Renewal Application
2021-2022

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Background

District Affiliation

SINTON ISD
CD #: 205906
Region: 02
Mailing Address (Line 1): P O BOX 1337
Mailing Address (Line 2):
City, State, Zip: SINTON, TX 78387

School Affiliation

SINTON H S

CDC #: 205-906-001

Region:

Mailing Address (Line 1): P O BOX 1337

Mailing Address (Line 2):

City, State, Zip: SINTON, TX 78387

E MERLE SMITH MIDDLE

CDC #: 205-906-041

Region:

Mailing Address (Line 1): P O BOX 1337

Mailing Address (Line 2):

City, State, Zip: SINTON, TX 78387

Academy Information

What is the academy name?

Sinton ISD T-STEM Academy

Which model does the district intend to implement at this time? Within these models, there are variations.

School-Within-School: Multiple Campuses - A subset of students in grades 6-12 are enrolled in the academy. This model typically spans a middle school and high school.

Grade Levels Served

What grade level(s) will your academy plan to serve in the 2021-2022 school year?

6
7
8
9
10
11
12

Enter the number of students that you plan to serve in 6th grade.

124

Enter the number of students that you plan to serve in 7th grade.

166

Enter the number of students that you plan to serve in 8th grade.

166

Enter the number of students that you plan to serve in 9th grade.

75

Enter the number of students that you plan to serve in 10th grade.

78

Enter the number of students that you plan to serve in 11th grade.

75

Enter the number of students that you plan to serve in 12th grade.

75

Contacts

Applicant

Applicant 1

Job Title

Director, T-STEM Academy

Name Prefix

Mrs.

First Name

Mary

Last Name

Lankford

Email

mlankford@sintonisd.net

Phone

3613646698

Principal

Principal 1

Name Prefix

Mr.

First Name

Albert

Last Name

Byrom

Email

abyrom@sintonisd.net

Phone

361-364-6670

Superintendent

Superintendent 1

Name Prefix

Dr.

First Name

Chad

Last Name

Jones

Email

cjones@sintonisd.net

Phone

3613646803

Narratives

Current Designations at SINTON ISD:

- SINTON H S - T-STEM - 1011

Previous Planning Year Applications at SINTON ISD:

Narratives

The majority of the following questions will be narrative response. Narrative responses are limited to a maximum of 250 words. We recommend writing your responses in a text-editing software such as Microsoft Word and then pasting your responses into the website when they are complete. Progress to the next section when you are ready.

Narratives: Degrees and Credentials, Recruitment and Enrollment

Degrees and Credentials

Select the Career Cluster(s) that your academy plans to offer in 2021-2022.

Agriculture
Health Science
STEM

Select the Program(s) of Study your academy plans to offer in 2021-2022.

Animal Science
Applied Agricultural Engineering
Plant Science

Select the Program(s) of Study your academy plans to offer in 2021-2022.

Healthcare Diagnostics
Healthcare Therapeutics
Nursing

Select the Career Cluster(s) that your academy plans to offer in 2021-2022.

Engineering

Which of the following credential(s) does the academy plan to offer students in 2021-2022 school year?

IC
NYD

What industry certifications does the academy plan to offer?

Item

Certified EKG/ECG Technician

Patient Care Technician

Phlebotomy Technician

Clinical Medical Assistant

NCCER Welding, Level 1

NCCER Electrical, Level 1

NCCER Electrical, Level 2

NCCER Pipefitting, Level 1

NCCER Instrumentation, Level 1

Patient Care Technician

Certified Nurse Aide/Assistant (CNA)

OSHA 30 Hour General Industry

Texas State Floral Association Floral Skills Knowledge Based Certification

Certified Veterinarian Assistant, Level 1

Autodesk Certified Professional or User (ACU)- Inventor

Autodesk Certified Professional or User in Revit Architecture

The T-STEM academy shall provide a rigorous course of study that enables students to receive a high school diploma and complete industry certifications, work-based learning experiences, and/or early college credit during grades 9-12. Describe how the campus will develop a rigorous course of study that will enable a participant to receive a high school diploma and complete industry certifications, work-based learning experiences, and/or early college credit during grades 9-12.

The T-STEM Academy is working with and through the Sinton ISD Gear-Up Program to ensure that the offered courses meet the rigorous level needed. The Gear-Up objectives are similar to the Design Elements of the T-STEM Blueprint. The director of the T-STEM works closely with the Gear-up and AVID Coordinators in providing teachers with Professional Development that supports a rigorous curriculum. Teachers participate in a minimum of three individualized educator coaching and/or mentor sessions. In addition, the middle school, high school, and Del Mar (IHE) meets as vertical teams to align curriculum and reduce the need for remediation at the postsecondary level.

Does the IHE partner currently have an articulation agreement with a four-year IHE detailing how a student's associate degree and accrued credits could lead to a baccalaureate degree?

Yes

Provide the university name that your IHE partner has an articulation agreement with and the bachelor degree that students could earn using their associate degree and accrued credits. Each row represents a degree.

2-Year Degree	University	4-Year Degree
Engineering	Texas A & M Corpus Christi (TAMUCC)	Engineering

LVN/RN
2-Year DegreeTAMUCC
UniversityRN/BSN
4-Year Degree

GIS

TAMUCC

GIS/UAS

Recruitment and Enrollment

Describe any changes in established plans for recruitment and enrollment process that meet open enrollment requirements.

We will continue our recruitment activities as in the past. However, due to the current restrictions, most will be done remote/virtual. We are also exploring the possibility of creating a You-Tube channel for the Academy. The video housed on the channel would ideally explain all a student or parent would need to know about the Academy. The winners of the video/infomercial contest describing each engineering course will be available on the channel too. The on-demand video could be used to educate students and parents, inform them of activities, and archive past events/achievements.

Narratives: Strategic Partnerships: IHE, Strategic Partnerships: Business Partner

Strategic Partnerships: IHE

IHE Partner 1

Affiliation

Del Mar College

Name Prefix

Dr.

First Name

Leonard

Last Name

Rivera

Email

lrivera@delmar.edu

Phone

(361) 698-2404

Job Title

Dean, Continuing Education & Off-Campus Programs

The T-STEM academy shall have strategic partnerships with business and industry partners and Institutions of Higher Education (IHEs) that are formally articulated in writing and clearly define a variety of STEM careers.

Describe how the IHE articulation agreement addresses the following IHE Blueprint Requirement: Curriculum alignment and courses of study, which enables a student to combine high school courses and college-level courses to earn either an associate degree, postsecondary certificate provided by an IHE, or industry certification.

Courses offered by the College for dual credit must be identified as college-level academic courses in the current edition of the Lower Division Academic Course Guide Manual (ACGM), or as college-level workforce education courses in the current edition of the Workforce Education Course Manual (WECM) adopted by the Texas Higher Education Coordinating Board. Continuing Education courses may be offered for select career and technical education and/or workforce education-related programs of study in accordance to the current edition of WECM and as prescribed by the Texas Higher Education Coordinating Board's rules and policies. The embedded faculty works closely with the Del Mar staff to follow the required curriculum. Sinton ISD works closely with Del Mar College to provide either dual credit or continued education for our students. Currently, Del Mar provides the instructors for four courses in Health Science that lead to the following certifications: EKG, phlebotomy, PCT, and MA. The instructors ensure that our students are given support throughout the curriculum to successfully pass the certification exams. To help with the expense of the course and the supplies, Del Mar provides/extends service to our schools. (pick up and disposal of sharp's containers, administer & reading of TB tests, adhere to the same curriculum and book for multiple years). The Del Mar staff and Sinton High School staff work closely to review the sequence of courses to ensure the students' success.

Describe how the IHE articulation agreement addresses the following IHE Blueprint Requirements: Policies for: 1) advising students on the transferability of all college credit offered and earned, 2) ensuring the IHE transcripts college credit earned through dual credit in the same semester that credit is earned, 3) advising students as to the transferability and applicability to baccalaureate degree plans for all college credit offered and earned (college credits earned during high school should allow students to progress from an associate degree to a bachelor's degree and beyond in their chosen field), 4) students accessing the IHE facilities, services and resources

Del Mar College offers full access to all of its student support services. Del Mar provides our Academy Del Mar representatives for advising and counseling. These representatives work closely with our students and counselors throughout the year. The Del Mar representatives counsel and advise each student multiple times during the year. These meetings are vital to ensure our students choose courses that fulfill their high school credits (pathway) and that the courses are transferable to post-secondary schools. In addition, Del Mar provides assistance with financial aid for the student and their family at our school. The student also has full access to Del Mar's library services and the Student Success Center. The Student Success Center, located on Del Mar's campus is committed to providing students with the facilities, resources, and services designed to enhance learning. Our students have access to peer

tutoring, workshops, seminars, and technology resources to assist them to succeed and promote positive learning outcomes. Currently, most of these services are done remotely due to COVID guidelines.

Describe how the IHE articulation agreement addresses the following IHE Blueprint Requirements: Transportation costs and fees including provisions for discontinuing operation while ensuring students previously enrolled will have opportunity to complete their course of study.

After graduation, our students that are enrolled in Del Mar have the opportunity to make a seamless transition to Del Mar College for up to a year to complete their course of study. Their TSIA and TSIA2 score are valid for up to 5 years.

Describe how the IHE articulation agreement addresses the following IHE Blueprint Requirements: Data sharing agreement that includes provisions for teacher data such as qualifications and student level data such as credit hours taken and earned, GPA, formative data to assess if student is on track for college readiness

Sinton ISD Counselors and Del Mar staff collaborate and coordinate all coursed for dual credit and continuing education courses. All dual credit and continuing education faculty follow the grading criteria in the department-approved syllabus. Del Mar College provides Sinton ISD with midterm and end-of-semester numeric grades for the dual credit and continuing education courses. We are currently developing a plan with the new TSIA2 data. The new TSIA2 student portal will provide much more data on college readiness that we will be shared with our Del Mar representatives. This information will allow for better planning and goal setting for our students. Sinton ISD gives the Del Mar representatives access to specific reports that help track our students' TSIA and TSIA2 scores. The new student portal also gives each student individualized areas of growth that can be shared with the Student Success Center to coordinate more specific tutoring for better student growth. We are working with IHE professors to vertical-align our math and English courses to increase and maintain the rigor in our high school to better prepare our students for college readiness. We are working on specific topics of concern that have been identified by the IHE staff as lacking in our students.

Strategic Partnerships: Business Partner

Business/Industry Partner 1

Affiliation/Company

Economy Medical Rental

Job Title

Secretary/Treasurer

Name Prefix

Mrs.

First Name

Elizabeth

Last Name

Fagan

Email

hookemhorns@aol.com

Phone

(361) 877-6825

Describe how the Business/Industry articulation agreement addresses the following Business/Industry Blueprint Requirements: Clear roles and responsibilities for work site supervisors, mentors, teachers, support personnel, and other partners.

One of the largest in-demand jobs in our area is in the medical field, specifically nursing. To help meet this demand, Sinton ISD chose to partner with Economy Medical Rental (EMR). This is a local family business with deep roots in our community. Mrs. Fagan, co-owner, is a graduate of Sinton High School and a champion for Health Care. She is a Registered Nurse and has been vital in molding the direction of Sinton's Health Science program. In our agreement, she has given us access to many parts of her business. She has provided the school with many tools and equipment that was needed. In addition, EMR employee individuals with different medical certifications that will act as mentors or support personnel in the classroom as needed. This includes Mrs. Fagan. Collaboration is offered/given with the various instructors as the training relates to the job market. In addition, through our partner's medical business, our students are afforded different opportunities to connect with various other medical businesses. A bridge has been formed to allow our students to job shadow, volunteer at hospitals, and interview medical professionals. However, due to COVID restrictions, most of these opportunities are only allowed by ZOOM. Led by EMR, our leadership team is creating a bank of mentors throughout the medical in our area. In the future when restrictions are lifted, we will create stronger partnerships for our students as a bridge to the workforce.

Describe how the Business/Industry articulation agreement addresses the following Business/Industry Blueprint Requirements: Support for students' activities, such a clubs, Career and Technical Student Organizations, competitions, and special invitations.

The agreement includes a staff member of EMR or Associate who will support/sponsor any student activity, or clubs as requested. The support may be financial or by connecting to the needed resources.

Describe how the Business/Industry articulation agreement addresses the following Business/Industry Blueprint Requirements: Student access to business and industry partners and work-based learning facilities, services, and resources.

As previously mentioned, a bank of medical business will be available for field trips, job shadowing, and in some instances volunteer work. (Most will now be by remote) Unpaid internships are also available. The leadership team is currently working with Workforce Solution for qualified and willing members of our junior class to experience paid internships their senior year. We are still in the negotiation stages to be a reality in the summer of 2021 and to continue through the school year.

Describe how the Business/Industry articulation agreement addresses the following Business/Industry Blueprint Requirements: Transportation fees and costs.

Sinton ISD or the student will pay any transportation fees and costs incurred associated with any field trips, internships, job shadowing volunteer work or similar experiences. EMR is not responsible for these costs.

Narratives: Regional Workforce Alignment, Work-Based Learning

Regional Workforce Alignment

List the regional high-demand occupations your academy intends to address through selected program(s) of study and work-based learning.

Regional High-Demand Occupation

engineering

registered nurse

Work-Based Learning

Complete the activity tables below illustrating the work-based learning activities that your academy plans to offer students at each grade level. Please ensure the activities are STEM focused.

Add up to three activities offered to 6th grade students.

6th Grade Activities

Many of these activities are temporarily done remotely. career fairs, facility visits, career excursions, guest speakers, career presentations, The Craft Training Center of the Coastal Bend summer school camp, "The Future of America".

Add up to three activities offered to 7th grade students.

7th Grade Activities

Many of these activities are temporarily done remotely. Participating in NEPRIS, job shadowing, career fairs, facility visits, career excursions, guest speakers, career presentations, The Craft Training Center of the Coastal Bend summer school camp, "The Future of America",

Add up to three activities offered to 8th grade students.

8th Grade Activities

Many of these activities are temporarily done remotely. Participating in NEPRIS, job shadowing, career fairs, facility visits, career excursions, guest speakers, career presentations, one-semester career information course, The Craft Training Center of the Coastal Bend summer school camp, "The Future of America",

Add up to three activities offered to 9th grade students.

9th Grade Activities

Many of these activities are temporarily done remotely. Participating in NEPRIS, job shadowing, career fairs, facility visits, career excursions, guest speakers, career presentations

Add up to three activities offered to 10th grade students.

10th Grade Activities

Many of these activities are temporarily done remotely. Participating in NEPRIS, job shadowing, career fairs, facility visits, career excursions, guest speakers, career presentations

Add up to three activities offered to 11th grade students.

11th Grade Activities

Many of these activities are temporarily done remotely. Capstone internships, participating in NEPRIS, job shadowing, career fairs, facility visits, career excursions, guest speakers, career presentations, paid internships

Add up to three activities offered to 12th grade students.

12th Grade Activities

Many of these activities are temporarily done remotely. Capstone internships, participating in NEPRIS, job shadowing, career fairs, facility visits, career excursions, guest speakers, career presentations, paid internships

Narratives: Advanced Academics

Advanced Academics

Select the type of advanced courses (dual credit/AP/IB) your campus plans to offer students in 2021-2022.

DC

AP

What type of dual credit courses does your campus plan to offer?

WECM

AGCM

Describe any challenges in ensuring your academy has educators with qualification to teach dual credit. What steps did your academy take to address the need?

We are a small rural district with little available housing. We have a hard time recruiting teachers and an even harder time with dual credit instructors. We are fortunate to have two dual credit teachers that are Sinton ISD employees. However, we have partnered with Del Mar College to provide the bulk of our dual credit classes. Del Mar provides dual credit instruction online. The District offers monetary incentives to complete the requirements to teach dual credit. (growing our own)

Is the academy a TSIA testing site?

Yes

Narratives: STEM-Focused Extracurriculars, Curriculum and Support

Curriculum and Support

Provide examples of how the campus plans to provide students with academic services. List activities and brief descriptions of the activities. Add a new row for each provided service.

Activity	Description
Advisory	daily 25 minute advisory period to meet the need of the students; academic intervention and or remediation, meetings with advisers or counselors, TSIA2, ACT, SAT tutoring/boot camps
AVID	This course aides students to overcome any obstacle and achieve success. The course includes tutorials as needed for the students, career exploration, and other help as necessary to bridge to post secondary education. Also included in the class are college students that mentor the high school students.
Saturday Scholars	Provides Junior and Seniors help in college application essays, scholarship essay writing and TSIA2, ACT, and SAT tutoring.
Summer Bridge programs	Activities to prepare the transition from 5th grade to middle school, 8th grade advancing to high school and high school graduates to the work force or higher education

Provide examples of how the campus plans to provide students with wrap-around services. List activities and brief descriptions of the activities. Add a new row for each wrap-around service.

Activity	Description
Family Support Night	Throughout the year, counselors host family nights to connect the family with different services provided by the school or the community. Connection to social services are provided as we are a small rural community that does not house all students need in our town. We show the families how to connect to services in surrounding areas. In addition we try to arrange times when some of the services will come to our high school. The staff also provides events for family education as a bridge to post secondary. These activites are held in smaller groups and some remotely due to COVID restrictions.

How does your academy use the access, achievement, and attainment data for program improvement?

Sinton ISD is a Google District. At each Family Night or Community event for the STEM Academy, The data is recorded to allow the counselors and or staff the information needed on each student to guide the changes or improvements of the program. We also survey the family several times during the year to ensure that the necessary help is obtained for the student's success. We also meet with our IHE and Industry Partners to discuss the data and discuss how to meet the needs of the students as well as the workforce of our Coastal Bend. Our Leadership team continually monitors and helps adjust or guide the Academy's programs to ensure that the Academy continues to grow and be successful.

Describe the STEM-focused extracurricular activities (field experiences, clubs, and competitions) offered to students.

The STEM-focused extracurricular activities are as follows; (Many are now remote) Our students participate in multiple engineering challenges with local Universities. Theme changes each year and they compete against other schools. Both high school and middle school students also participate in VEX robotics and their competitions. Another competition for our students is the Agrobotics Challenge using Lego Mindstorm robots (held at the major stock shows in Texas). It combines robotics engineering and technology with an agricultural focus. We have robotics clubs for both campuses. The clubs are sponsored by the Robotics Booster Club. Our current focus of the club is to expand robotics to the lower grades. We are developing an after school STEM program for our "latch key program". The high school students hold small design competitions with the elementary students enrolled in the program. We are also having video competitions, an infomercial describing each of our engineering classes. Our students visit multiple colleges and universities throughout the year. Some are campus visits to allow students the full campus experience. Other visits are specifically geared for students to connect education pathways with career choice. Middle School students have the opportunity to participate in the Craft Training Center of South Texas (CTC) summer camp to explore multiple crafts. Both schools participate in GIS Day at Del Mar College and other field experiences as opportunities arise. We visit local businesses and industries to connect the STEM within each company.

Narratives: Leadership Team

Leadership Team

List the Leadership Team's three priorities for the next year and describe how the selected priority contributes to the academy's success. Each priority should be a benchmark from the ECHS/T-STEM/P-TECH Blueprint.

Benchmark	Description
3 -Strategic Alliances	Our area continues to be in the middle of a Business and Industry Expansion. We are forging alliances with as many of these new businesses as possible. The goal of the Academy is to provide the future employees of our area. We continue to make new MOUs with our partners to clearly define roles and responsibilities of each. COVID has slowed our progress but it continues.
3- Strategic Alliances	We are still adjusting and aligning our curriculum to meet the needs of the local workforce and it continues to evolve.
Benchmark 4 Curriculum, Instruction, and Assessment	Saturday Success Camps will continue to focus on TSIA2, ACT, SAT Prep. We will also offer summer boot camps to ensure student success on the forementioned exams.

Narratives: Benchmark 1 Products, Benchmark 2 Products, Benchmark 3 Products, Benchmark 4 Products, Benchmark 5 Products, Benchmark 6 Products, Benchmark Products

Benchmark Products

Benchmark 1 Products

Provide a link to the academy's mentor/induction program plans.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's annual training or professional development plan with the academy and IHE faculty

<https://www.sintonisd.net/STEM>

Provide a link to the academy's leadership meeting agendas and notes.

<https://www.sintonisd.net/STEM>

Benchmark 2 Products

Provide a link to the academy's written admission policy and enrollment application

<https://www.sintonisd.net/STEM>

Provide a link to the academy's written recruitment plan including a timeline of recruitment

and enrollment events, and recruitment materials for distribution at feeder schools and other appropriate locations in the community.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's brochures and marketing in Spanish, English, and/or other relevant languages.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's written recruitment plan including a timeline of recruitment and enrollment events, and recruitment materials for distribution at feeder schools and other appropriate locations in the community.

<https://www.sintonisd.net/STEM>

Benchmark 3 Products

Provide a link to the academy's meeting agendas and minutes, with action items and decision logs.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's final, signed, and executed MOU with their industry partner/business.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's final, signed, and executed MOU with their IHE

<https://www.sintonisd.net/STEM>

Provide a link to the academy's list of strategic partners with each member's organization, title and role in providing work-based learning for students by grade level.

<https://www.sintonisd.net/STEM>

Benchmark 4 Products

Provide a link to the academy's four-year crosswalk document

<https://www.sintonisd.net/STEM>

Provide a link to the academy's master schedule.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's curriculum alignment documents.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's testing calendar and schedule for TSI, ACT, SAT or other assessments.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's documentation detailing a minimum of three course of study examples that outline student pathways from high school, to associate degrees, to work credential and beyond.

<https://www.sintonisd.net/STEM>

Benchmark 5 Products

Provide a link to the academy's documentation of appropriate work-based learning experiences for students at all grade levels.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's current dated regional high demand occupation list.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's aggregate data describing student participation in work-based learning experiences as well as percentage of students earning industry certification and credentials by type.

<https://www.sintonisd.net/STEM>

Provide a link to the academy's samples of student artifacts such as writing, portfolios, presentations, or links to digital content.

<https://www.sintonisd.net/STEM>

Benchmark 6 Products

Provide a link to the academy's bridge program calendar and curricula.

<https://www.sintonisd.net/STEM>

Provide a link the academy's tutoring and other intervention/remediation program schedules,

<https://www.sintonisd.net/STEM>

Provide a link to the academy's calendar of family outreach events.

<https://www.sintonisd.net/STEM>
