



DR LEO CIGARROA H S
T-STEM Renewal Application
2021-2022

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Background

District Affiliation

LAREDO ISD

CD #: 240901

Region: 01

Mailing Address (Line 1): 1702 HOUSTON ST

Mailing Address (Line 2):

City, State, Zip: LAREDO, TX 78040

School Affiliation

DR LEO CIGARROA H S

CDC #: 240-901-003

Region:

Mailing Address (Line 1): 2600 ZACATECAS ST

Mailing Address (Line 2):

City, State, Zip: LAREDO, TX 78046

Academy Information

What is the academy name?

Sabas Perez School for Engineering and Technology

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

School-Within-School (SWS) - A subset of students on the campus are enrolled in grades 9-12 are enrolled in the academy.

Grade Levels Served

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

9

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

100

Contacts

Applicant

Applicant 1

Job Title

CCMR Director

Name Prefix

Mr.

First Name

Rogelio

Last Name

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(956)273-1861

Principal

Principal 1

Name Prefix

Mr.

First Name

Jose

Last Name

Iznaola

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Phone

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Superintendent

Superintendent 1

Name Prefix

Dr.

First Name

Sylvia

Last Name

Rios

Email

sgrios@laredoisd.org

Phone

(956)273-1400

Narratives

Current Designations at LAREDO ISD:

- MARTIN H S - ECHS - 1718
- DR LEO CIGARROA H S - P-TECH - 1819
- DR LEO CIGARROA H S - T-STEM - 2020
- HECTOR J GARCIA EARLY COLLEGE H S - ECHS - 0607

Previous Planning Year Applications at LAREDO 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.

STEM

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

Cybersecurity
Programming and Software Development

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

NYD

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.

SABAS Perez Early College will develop a rigorous course of study for students alongside with the IHE partner, Laredo College. Students admitted into SABAS Perez ECHS will be able to select from obtaining an Associates of Science with a concentration in Computer Science, Associates of Applied Science with a concentration Cybersecurity, and different Industry Based Certifications throughout their Career and Technology courses. Some of the certifications that will be offered include SOLIDWORKS Certified Associate and Level I certificates based on the students' strengths and interests. Students will be offered different dual enrollment courses as well as Pre-AP and AP courses. Throughout the program, students will be prepared to be TSI ready in order fulfill the requirements of their selected program goal. As a part of SABAS Perez ECHS, students will be exposed to Work Based Learning Opportunities through various partners in order to obtain skills needed for their occupation. Through the participation of PLC's and externships, teachers in this program will be able to incorporate career connections which will further expand the opportunities and rigor of the learning provided to the students.

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
Associates of Science	Texas A&M San Antonio	Bachelor of Science in Computer Science

Recruitment and Enrollment

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

SABAS Perez Early College High School will join the recruitment efforts for specialty schools set forth by Laredo Independent School District. As a part of these efforts, schools will hold classroom presentations for all middle school 8th grade students. SABAS Perez will also hold a virtual parent night to be able to review program goals, pathways, and crosswalk. This current year, due to the pandemic, all presentations will be done virtually through google classroom. During the parent meeting, google links will be provided so that parents can attend their virtual parent booth in order to ask specific program questions. SABAS Perez Early College is an open enrollment school that will target specific demographics aligned to program Outcome Based Measures such as At-Risk, Economically Disadvantaged, English learners and students with disabilities.

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

Strategic Partnerships: IHE

IHE Partner 1

Affiliation

Laredo College

Name Prefix

Dr.

First Name

Ricardo

Last Name

Solis

Email

president@laredo.edu

Phone

(956)721-5101

Job Title

President

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.

As a part of the MOU with our IHE Laredo College, our crosswalk has been included which outlines the different programs we will provide such as Associates of Science with a concentration in Computer Science, Associates of Applied Science in Cybersecurity, a Level I certificate in Computer Aided Drafting and various certifications throughout our CTE courses. Within the MOU the following is stated: "Dual credit courses are courses in which a high school student enrolls in a college course and receives simultaneous academic credit for the course from both the college and high school. Courses offered for dual credit must be identified by the College as college level academic or college level workforce courses." "The College Dual Enrollment courses are equivalent to any other college level courses with respect to curriculum, instruction, and grading criteria."

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

Articulation agreement with the IHE for advising on transferability and applicability for students include "The College will be responsible for ensuring timely and efficient access to enrollment services such as advising, counseling, academic support services and transferability of credit to two-year and four-year institutions, and other benefits for which the student may be eligible. " Articulation agreement with the IHE for Credits include "All grades earned by a student will be included in the computation of the current semester to reflect term and cumulative GPAs. Transcript corrections due to major change or repeat course are updated prior to the grade reporting period. " Articulation agreement with the IHE for accessing facilities include: "Students enrolled in Dual Enrollment course(s), offered under this Agreement, will have access to all available instructional resources at the College."

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.

Transportation costs in the articulation agreement are as follows, "The District will use state funding to cover the cost of applicable tuitions, fees, textbooks and transportation to support this dual enrollment initiatives. Discontinuation operation in the articulation agreement are as follows, "The College and the District reserve the mutual right to terminate this Agreement through a written notice given within ninety (90) days prior to the termination date. Students enrolled in Dual Enrollment courses at the time the notice is given will be permitted to complete the course(s) until the end of the semester in which the notice is first given. An amendment to this Agreement is not effective until approved in writing by an authorized representative from the College and the District. "

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

Teacher data qualifications include: "The College will select instructors for college level dual credit courses. Instructors must be regularly employed faculty members of the College or must meet the same standards (including minimal requirements of the Southern Association of Colleges and Schools) and approval procedures used by the College to select adjunct faculty responsible for teaching the same college level courses at the College. High school teachers selected to teach Dual Enrollment courses must meet the same approved criteria that the Colleges uses for adjunct faculty and will be evaluated using the evaluation instruments and procedures that are used for faculty at the College. Courses taught by high school teachers will be evaluated each instructional semester by the college's appropriate Department Chair. Dual Enrollment students will evaluate their instructors using the evaluation instruments and procedures that are used at the College. The District will share with the College data on faculty qualifications to determine eligibility to teach dual courses." In regards to student level data, articulation agreement states the following will be shared: THE DISTRICT Data Campus Name Student Name Student DOB Student high school ID number Qualifying GPA TSIA Scores & Date of Assessment Qualifying EOC Scores & Date of Assessment Class rosters with student high school ID number & LC ID number LC Data Campus Name Student Name Student DOB Student high school ID number Student LC ID number Class rosters with student high school ID number & LC ID number Grades Midterm letter grades only Final letter and numerical grades LC GPA

Strategic Partnerships: Business Partner

Business/Industry Partner 1

Affiliation/Company

Lozano Engineering & Consultant

Job Title

CEO Engineer

Name Prefix

Mr.

First Name

Jorge

Last Name

Lozano

Email

jlozano5@stx.rr.com

Phone

956-285-7684

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.

Worksite supervisors will ensure that every participating student receives mentoring from an industry professional, including an opportunity to communicate in writing or online and face-to-face interaction on at least two occasions per year. Supervisors and Human Resources managers will identify the appropriate entry-level positions students from T-STEM may qualify for upon graduation, work with mentors/teachers to map the key skills needed to succeed in those positions, and strongly consider T-STEM students for those employment opportunities. Industry partner and school will work together to coordinate site visits, recruit and match mentors to students, identify appropriate internship opportunities and support teachers and faculty in developing appropriate curricula.

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.

Students will be assigned to design a project, visits, presentations, internships and apprenticeships to prepare the students for the world of workforce. T-STEM students will participate in Robotics competitions throughout the year as well as UIL Math and other categories. T-STEM students have opportunities to gain skills in the engineering courses as well as certifications in animation, solidworks and IC3. Through experience acquired at the worksite and the skills learned at school, both entities will enable students to become more employable and gain unique talents that will make them successful in competitions and activities.

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.

Industry Partner will allow Laredo College, Laredo Independent School District CCMR Dept., and the School's staff and students appropriate access to their facility to support program activities, including, but not limited to, internships, job shadowing, mentoring and other "real-life" work experiences for students. Laredo Independent School District will provide transportation for students to and from

Industry Partner facility and school/Laredo College.

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

Laredo Independent School District will provide regular operating funds to the T-STEM school in the same manner as other Laredo public schools. Laredo Independent School District will identify additional funding streams that may be available to the school, including but not limited to federal Perkins program funding. Expenses incurred, including, but not limited to transportation will be covered by Laredo Independent School District.

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

Computer Programmers

Software Developers, Applications

Software Developers, Systems Software

Computer System Analysts

Information Security Analysts

Network and Computer Systems Administrator

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 9th grade students.

9th Grade Activities

Career Day Speakers

Career Interest Inventory

Site Visits to Industry Partner Locations

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?

The academy has a Social Studies, Computer Programming and an English dual adjunct teachers. However, we are pending a Math and Science teacher due to IHE requirements to become an adjunct instructor for our district. Currently, the district will pay a stipend of \$500 per section taught by dual teachers. These incentives are provided to motivate teachers in pursuing their masters degree and meeting the IHE requirements to be approved to teach dual courses.

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
Bridge Programs	Summer Bridge will provide all incoming 9th grade students with TSI courses as well as upperclassmen pending TSI..
Saturday TSI testing	Students will be given Saturday Testing opportunities for TSI.
Tutoring	Students will be provided tutoring by their teacher facilitators, adjuncts etc.
Individualized Graduation Plans	Counselors will work with students to create their individualized plan based on their interests and needs.

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
Parent Meetings	TSTEM Academy will provide opportunities for parents to become aware and involved in program requirements and advances..
Soft Skills	Community partners will be invited to campus to talk to students about soft skills and the importance for successfully attaining a job.
Work Based Learning	Students will be provided opportunities to engage in internships/externships/work based learning to enhance skills required.
Social Services	Students have access to social services through PILLAR, SCAN, Border Region MMHR as well as the school counselor providing other resources.
Community Service	Students will participate in local community service events as well as document individual efforts.

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

Our TSTEM academy will use the access, achievement, and attainment Outcome Based Measures as a

guiding force in creating and improving our program. Areas of improvement will be identified based on our percentage within the OBM guidelines and strategic plans will be created to implement at the campus level. The yearly OBMs will allow us to modify our recruitment efforts, STAAR scores, TSI Bridge program, Dual course grades, certificates, certifications as well as other areas being measured. Ultimately, the goals of SABAS Perez Early College is to meet OBM's and be a Distinguished campus therefore all efforts will be put in place to provide the best learning opportunities for our students at the academic course level as well as the work based learning level.

STEM-Focused Extracurriculars

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

Robotics Club First Tech Robotics competition Summer robotics camps Underwater robotics camps STEM camps Elementary Robotics competition Field trips to NASA

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
Recruitment	Recruitment efforts will be modified as needed in order to recruit students based on the OBM requirements.
Work Based Learning	TSTEM leadership will continue the ongoing effort to find work based opportunities for students throughout the community.
TSI	Bridge programs aligned the TSI 2.0 will be created to provide intervention and remediation for all students.

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.

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

Benchmark 2 Products

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

http://meta.elisd.org/t_e_a_required_products

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.

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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.

http://meta.elisd.org/t_e_a_required_products

Benchmark 3 Products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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.

http://meta.elisd.org/t_e_a_required_products

Benchmark 4 Products

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

http://meta.elisd.org/t_e_a_required_products

Provide a link to the academy's master schedule.

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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.

http://meta.elisd.org/t_e_a_required_products

Benchmark 5 Products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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.

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

Benchmark 6 Products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products

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

http://meta.elisd.org/t_e_a_required_products
