



BEL AIR H S
T-STEM Renewal Application
2021-2022

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Background

District Affiliation

YSLETA ISD

CD #: 071905

Region: 19

Mailing Address (Line 1): 9600 SIMS DR

Mailing Address (Line 2):

City, State, Zip: EL PASO, TX 79925

School Affiliation

BEL AIR H S

CDC #: 071-905-001

Region:

Mailing Address (Line 1): 731 YARBROUGH DR

Mailing Address (Line 2):

City, State, Zip: EL PASO, TX 79915

BEL AIR MIDDLE

CDC #: 071-905-055

Region:

Mailing Address (Line 1): 7909 RANCLAND DR

Mailing Address (Line 2):

City, State, Zip: EL PASO, TX 79907

Academy Information

What is the academy name?

Bel Air High School T-STEM Academy

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?

7
8
9
10
11
12

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

80

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

60

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

60

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

60

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

40

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

40

Contacts

Applicant

Applicant 1

Job Title

Assistant Principal

Name Prefix

Mr.

First Name

Luis

Last Name

Alarcon

Email

lalarcon1@yisd.net

Phone

9154342003

Principal

Principal 1

Name Prefix

Mr.

First Name

Charles

Last Name

Garcia

Email

cgarcia88@yisd.net

Phone

9154342005

Superintendent

Superintendent 1

Name Prefix

Dr.

First Name

Xavier

Last Name

De La Torre

Email

xdelatorre@yisd.net

Phone

9154340000

Narratives

Current Designations at YSLETA ISD:

- BEL AIR H S - T-STEM - 1718
- PARKLAND H S - ECHS - 1718
- PARKLAND H S - T-STEM - 1516
- YSLETA H S - ECHS - 1718
- YSLETA H S - T-STEM - 1617
- RIVERSIDE H S - P-TECH - 1819
- RIVERSIDE H S - T-STEM - 0910
- J M HANKS H S - ECHS - 1920
- DEL VALLE H S - T-STEM - 1516
- VALLE VERDE EARLY COLLEGE H S - ECHS - 0708

Previous Planning Year Applications at YSLETA 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.

Architecture & Construction
Manufacturing
STEM

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

Architectural Design

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

Advanced Manufacturing and Machinery Mechanics

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

Cybersecurity
Engineering
Programming and Software Development
Renewable Energy

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

IC

What industry certifications does the academy plan to offer?

Item

OSHA 30 Hour General Industry

Microsoft Technology Associate (MTA) Introduction to Programming Using Python

Autodesk Certified Professional or User in AutoCAD

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

Recruitment and Enrollment

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

All 6th grade students are given the opportunity to enroll in introductory T-STEM courses without the need for application. All 8th grade students will be given a presentation about Bel Air T-STEM and opportunity to apply. Applications will be accepted and a blind lottery will be conducted if there are more applications than spots.

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

Strategic Partnerships: IHE

IHE Partner 1

Affiliation

El Paso Community College

Name Prefix

Ms.

First Name

Tonie

Last Name

Badillo

Email

mbadill4@epcc.edu

Phone

915-831-6755

Job Title

Dean of Dual Credit and Early College High Schools

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.

The alliances with IHE will serve to incorporate members in order to serve on our advisory board, provide internships, host field trips for our students, and offer externships for our STEM teachers. Articulated and Dual Credit courses will align with El Paso Community College level courses. Students will also be offered a number of advance credit courses and industry certification in offered pathways.

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

Partner will allow student tours and accessibility to labs for project based learning and research and internships. Open opportunities to apply and/or participate in Engineering program/camps for possibility of recruitment. and admissions. Example, field trips to the University of Texas at El Paso (UTEP) - Engineering program. In addition, EPCC counselors will host advising nights every semester to ensure students are aware of class transferability to EPCC and other 4 year institutions.

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.

YISD will provide all transportation costs at this time.

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

Campus counselor will keep Graduation plans (Audit sheets) updates that adhere to state and district provision/requirement. Data record will be inclusive of assessments, course credits earned and college readiness alignment based on pathway selection. EPCC will also provide access to data sharing through a portal for live EPCC data to include tests scores, enrollment and academic status.

Strategic Partnerships: Business Partner

Business/Industry Partner 1**Affiliation/Company**

Keats Southwest

Job Title

Sales Coordinator

Name Prefix

Mr.

First Name

Mario

Last Name

Ramirez

Email

marior@keatssw.com

Phone

915-275-5776

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.

The purpose of this partnership is to provide teachers and other curriculum planners with a framework for revising program goals and implementing curriculum standards for cooperative STEM programs. This framework can serve as the basis for development of a curriculum which meets the needs of the campus, business/industry, and best serves the students in the district. This collaborative agreement points the way to strengthening cooperative STEM education in the secondary schools that will help in defining the roles and responsibilities of all parties involved. The roles consists of providing exposure, guidance, and experience to students who in turn will acquire skills for real-world job opportunities.

Describe how the Business/Industry articulation agreement addresses the following

Business/Industry Blueprint Requirements: Support for students' activities, such as clubs, Career and Technical Student Organizations, competitions, and special invitations.

Industry guest speakers play an integral part in associating and introducing real-world application with our students. Students experience field trips to our local community businesses that cater to the Engineering discipline. In turn, our engineering students have provided STEM focused activities to our feeder schools in Computer Science and Robotics throughout the 2018 – 2019 school year as well as the 2019 Engineering Summer Camp. - Engineering Day: activity based, student led pathway explorations. - Club/Competition - Tech Club - TSA competition-State qualifiers - City-Wide Tech competition - UIL - Computer Science participants - Middle School: Robotics club - UIL Science/Math Local - Robotics/VEX Competition

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.

Students are exposed to a variety of resources geared towards business/industry STEM professions. An ongoing partnership with local engineering/manufacturing firms that allow students to engage in everyday operation. These work-based learning facilities reveal to students an environments where guidance and learned skills are applied to tasks. Nepris (a virtual platform) is another resource that is implemented in the classroom. This source connects real-world relevance and career exposure to students. Events: - Manufacturing Day: Industry invitation to explore and observe industry operations - Students are exposed to work field experience with Habitat for Humanity to build homes that are located in the El Paso area. - University's Engineering and Computer Science program: laboratory accessibility

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

YISD will provide all transportation costs. Any assistance by the industry partner would be on a voluntary basis.

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

Computer Science
Regional High-Demand Occupation

Architecture

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 7th grade students.

7th Grade Activities

STEM Clubs/In-Class Activities

VEX Robotics

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

8th Grade Activities

STEM Clubs/In-Class Activities

VEX Robotics

Career Exploration

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

9th Grade Activities

Guest Speakers

TSA and VEX Robotics

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

10th Grade Activities

Field Trips

TSA and VEX Robotics
10th Grade Activities

STEM Clubs

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

11th Grade Activities

Job Shadowing and Practicum

TSA and VEX Robotics

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

12th Grade Activities

Internships

Research Opportunities with local college

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?

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 will recruit, support and retain highly qualified teachers by way of seeking those who have the appropriate credentials in the area of need. The candidate must have post-secondary degree education with a number of years of experience in the field and meet the requirement request by district/higher education policy. All qualified dual credit teachers will be credentialed by EPCC. Support will be provided through annual training and professional development for both new teachers

and existing. And although limited opportunities arise for specific STEM positions, Job-a-like (externships) will be sought and offered in partnerships with local industry businesses. The purpose is to keep educators well informed of industry changes. This allows for curriculum alignment and consistency of program goals. The campus will retain teachers by creating an environment that is conducive to a balanced climate and culture where they are provided an opportunity for leadership and growth by way of incorporating collaboration where teachers are allowed to give feedback on planning and development (decision making)-giving them a sense of ownership.

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
No Excuse Zone	Tutoring and intervention/remedial program
Beyond Bel Air Lecture Series	Mentorship and guidance
GO Center	College and career advising
Summer Bridge Program	Test Preparation and Team Building

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
Internships	Students will shadow and work with industry partners to gain real world experience.
Community Outreach/Service	Working in conjunction with other groups, students will lend support to various community organizations.

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

The access achievement and attainment data are used to depict student needs in their core content subjects. These needs are analyzed by the Engineering and Computer Science educators in an attempt to provide for interventions in any one of the content areas. As Mathematics and Science educators, each Engineering and Computer Science Educator provides as additional support for these complex subjects.

STEM-Focused Extracurriculars

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

Our engineering students have provided STEM focused activities to our feeder schools in Computer Science and Robotics throughout. Our students attended the 2019 Engineering Summer Camp. Students also experienced field trips to our local university's Engineering and Computer Science program and visited community businesses that cater to the Engineering discipline. UTEP Engineering Day - activity based, student led pathway explorations. Students are also exposed to work field experience with Habitat for Humanity to build homes that are located in the El Paso area. Club/Competition Tech Club TSA competition-State qualifiers City-Wide Tech competition UIL - Computer Science Regional qualifiers Middle School: Robotics club UIL Science/Math Local Robotics/VEX Competition

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
2. Target Population	Increase enrollment and feeder school alignment
5. Work Based Learning	Increase certification attainment and internship opportunities
6. Student Support	Increase success academically and socially

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.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

Benchmark 2 Products

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

<https://www.yisd.net/domain/3707>

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.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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.yisd.net/domain/3707>

Benchmark 3 Products

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

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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.yisd.net/domain/3707>

Benchmark 4 Products

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

<https://www.yisd.net/domain/3707>

Provide a link to the academy's master schedule.

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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.yisd.net/domain/3707>

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.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

Benchmark 6 Products

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

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>

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

<https://www.yisd.net/domain/3707>
