



# IDEA EDINBURG COLLEGE PREPARATORY

T-STEM Renewal Application

2019-2020

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# Background

## District Affiliation

IDEA PUBLIC SCHOOLS

CD #: 108807

Region: 01

Mailing Address (Line 1): 2115 W PIKE BLVD

Mailing Address (Line 2):

City, State, Zip: WESLACO, TX 78596

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## School Affiliation

IDEA EDINBURG COLLEGE PREPARATORY

**CDC #:** 108-807-009

**Region:**

**Mailing Address (Line 1):** 2553 ROEGIERS RD

**Mailing Address (Line 2):**

**City, State, Zip:** EDINBURG, TX 78541

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## Academy Information

**T-STEM Academy Name:**

IDEA EDINBURG COLLEGE PREPARATORY

**Are you currently in the 2018-2019 planning year or are a 2018-2019 planning grantee?**

Yes

**What grade level range will your academy serve in the 2019-2020 school year?**

6-12

| Grade Level | Number of Students | School / CDC # Where Students are Enrolled    |
|-------------|--------------------|-----------------------------------------------|
| 6           | 130                | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |
| 7           | 130                | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |
| 8           | 120                | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |
| 9           | 115                | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |
| 10          | 100                | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |
| 11          | 90                 | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |
| 12          | 90                 | IDEA EDINBURG COLLEGE PREPARATORY (108807009) |

# Contacts

## Business Partner

**Affiliation:** Advancing Together

**Job Title:** LSBW

**Full Name:** Mrs. Cynthia Arteaga

**Email:** [doradocindya@yahoo.com](mailto:doradocindya@yahoo.com)

**Phone Number:** 956-789-5443

## Superintendent

**Job Title:** Superintendent

**Full Name:** Mrs. JoAnn Gama

**Email:** [joAnn.gama@ideapublicschools.org](mailto:joAnn.gama@ideapublicschools.org)

**Phone Number:** 956-463-9407

## Applicant

**Job Title:** Prinicpal

**Full Name:** Mr. Ramiro Gomez

**Email:** [ramiro.gomez@ideapublicschools.org](mailto:ramiro.gomez@ideapublicschools.org)

**Phone Number:** 956-373-6298

## IHE Liaison

**Affiliation:** The University of Texas-Rio Grande Valley

**Job Title:** President

**Full Name:** Dr. Guy Bailey

**Email:** [president@utrgv.edu](mailto:president@utrgv.edu)

**Phone Number:** 956-665-2100

# Narratives

## Model Implementation

**Which T-STEM model does the district intend to implement at this time? Within these models, there are variations. For this purpose campus is defined as a CDC number not a physical location.**

School-Within-School: Other Grade Levels - All students enrolled in grades 6-12 or grades 9-12 are enrolled in the T-STEM but other grade levels exist on the campus (such as grades K-5).

## Endorsements

**Identify the current endorsements that are offered:**

- Science, Technology, Engineering, and Mathematics (STEM)
- Arts and Humanities
- Multi-disciplinary Studies

## Certificates

**Does this academy offer Associate Degrees to students?**

No

## TSIA

Does this academy administer the TSIA exam?

Yes

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What ID number do students use when taking the TSIA exam?

Local District Assigned ID

## Key Elements for Success

**Provide a link to the job description, roles of design team, leadership team, and advisory board.**

<https://www.ideapublicschools.org/our-schools/idea-edinburg/tstem>

**Provide a link to the final, signed, and executed MOU.**

<https://www.ideapublicschools.org/our-schools/idea-edinburg/tstem>

**Provide a link to the academy's master schedules.**

<https://www.ideapublicschools.org/our-schools/idea-edinburg/tstem>

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

<https://www.ideapublicschools.org/our-schools/idea-edinburg/tstem>

**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.ideapublicschools.org/our-schools/idea-edinburg/tstem>

**Provide a link to the academy's internship and externship opportunities.**

<https://www.ideapublicschools.org/our-schools/idea-edinburg/tstem>

## Free-Response

**Describe how the Academy will recruit, support, and retain highly qualified teachers.**

IDEA Public Schools has developed a comprehensive program to recruit, support and retain highly qualified teachers. Our Recruitment and Staffing Team specialize in selecting and attaining the best candidates possible. They administer a rigorous application process where candidates are selected based on skill, will, endorsements, credentials, experience, etc. Talent partners (recruiters) take an active role with principals and campus staff in screening, interviewing and selecting the best candidates possible. IDEA continues to support all new teachers by having them attend a two week training called the New Teacher Institute. This training is not only available for new teachers, but for all teachers. This comprehensive training provides teachers the opportunity to develop instructional practices, acquire resources, initiates networking and facilitates the collaboration with peers. One of the stages of our staff development cycle are 2x2 conversations. The consists of both managers and teachers providing each other feedback on their performance and their progress towards goals. This is an opportunity for teachers to voice their needs to their managers. Managers then tailor coaching conversations and support based on teacher input. Our teachers participate in the Teacher Career Pathway. The TCP is a differentiated reward, recognition and retention program for teachers at IDEA. The TCP program synthesizes multiple components of a teacher performance in order to place them on a five-tier pathway. Each level on this pathway has its own set of supports, rewards and recognitions. Pathway evaluations and placements are conducted annually. IDEA teachers are awarded monetary compensation depending on student achievement. These bonuses are given to those that meet and/or exceed their goals on state accountability measures. Examples of such measures are state distinctions, 90/30 passing rates on state assessments, etc. AP teachers are also awarded per student that passes the AP exams with a 3 or better. IDEA also offers compensation for perfect attendance, longevity and level of education. IDEA has designated three full days within our school calendar for district trainings (Course Collaboration) throughout the school year. Teachers review areas of growth, Interim Assessments, share best practices and align instruction. Besides these full days of trainings, IDEA has set two 1/2 days for campus professional development trainings. Teachers also participate on bi-weekly subject course collaboration session/webinars every Wednesday with their peers around the district. IDEA has partnered with NMSI (National Math Science Initiative). NMSI provides our AP teachers with ongoing training and support throughout the school year.

**Describe the current STEM pathways available at the academy.**

We currently offer 3 endorsements with a variety of pathways. The first is a STEM endorsement. It requires a fourth year in Math or Science from the following courses; Algebra II, Chemistry or Physics. There are two possible paths. Path number one consists of 4 science credits from the following courses; Pre-AP Biology, Pre-AP Chemistry, AP Physics 1, AP Biology and AP Environmental Science. Path number 2 consists of 5 Math credits from the following courses; Pre-AP Algebra I, Pre-AP Geometry, Pre-AP Algebra II, Pre-AP Pre-Calculus, AP Calculus, AP Statistics AND/OR Computer Science I/AP

Our second endorsement is Arts & Humanities, also with two possible paths. The first path consists of 4 levels of the same language, LOTE, from the following coherent sequence of courses; Spanish I, Spanish II, Spanish III, Spanish IV, AP Spanish Language, AP Spanish Literature. The second path is in the discipline of social studies. The courses needed are the following in a coherent sequence; AP Human Geography, AP World History, AP US History, AP Government and AP Micro-Economics. Our third endorsement is in Multidisciplinary Studies. It requires 4 credits in each of the four foundation subject areas to include English IV and Chemistry and/or Physics. The following are the courses available for this endorsement are in IDEA's 4 X 4 Plan;

English Courses

- \_\_\_\_ Pre-AP English I
- \_\_\_\_ Pre-AP English II
- \_\_\_\_ AP English Language
- \_\_\_\_ AP English Literature

Math Courses

- \_\_\_\_ Pre-AP Algebra I
- \_\_\_\_ Pre-AP Geometry
- \_\_\_\_ Pre-AP Algebra II
- \_\_\_\_ Pre-AP Pre-Calculus

Humanities Courses

- \_\_\_\_ AP Human Geography
- \_\_\_\_ AP World History
- \_\_\_\_ AP US History
- \_\_\_\_ AP Government (1/2) / AP Economics (1/2)

Science Courses

Pre-AP Biology

- \_\_\_\_ Pre-AP Biology
- \_\_\_\_ Pre-AP Chemistry

Pre-AP Chemistry

- \_\_\_\_ AP Physics 1
- \_\_\_\_ AP Biology -OR- AP Environmental Science

**Describe how strategic alliances with industry partners and IHEs will support the Academy. The description should include details regarding the role of each IHE, business, and/or community partnership; along with parent/family partnerships and communication conventions with the Academy.**

Working within our community, business partners will be enlisted for the purposes of cultivating our vision of STEM educated scholars here at IDEA College Prep Edinburg. In partnering with ICPE, businesses will create internship opportunities for students. ICPE will provide faculty members to serve as mentors for these service learning projects, community service opportunities, and mentorships. During our career days, student, and parent meetings, our business partners will provide guest speakers and field trip opportunities. Our first business partner is Advancing Togeth, Health Steps. In our MOU will provide career exploration opportunities in the form of job shadowing, internships, and educational presentations at ICPE events. The social workers and nurses will work with ICPE to build student engagement in the studies of health sciences, and experiencing the field of health science. In our partnership with UTRGV, students will receive the opportunity to attend STEM-related lecture series and interact with professors. Our cohort of students will be able to utilize real world and academic knowledge of fields like mathematics, physics, chemistry, engineering, and computer programming. Within this partnership, students can identify and interact with possible college major options prior to graduating high school. Currently, our parents support us by, mainly, chaperoning for us during our field lessons and various events and fund raise for the school. In order to further improve our partnership with parents, we are researching the best strategies to initiate a Family Advisory Council.

### **Describe the Academy's work-based and contextual learning in the curriculum.**

ICP Edinburg will continue to offer enticing programs such as the TexPrep program, CSAP (College Summer Away Program), Computer Programming Enrichment Program and Computer Refurbishing Program. Through these programs, students are able to learn and apply STEM concepts through realworld experiences and project-based/work-based scenarios. Our students are required 125 hours of

community service which they serve in STEM related establishments such as hospitals, engineering firms, veterinary clinics, etc. Students will attend STEM classes and integrate their learning with other courses which they will be taken concurrently. Examples include creating an experiment during their AP Physics or AP Chemistry class and using methods taught in STEM class to manipulate data that can lead to conclusions and then present their results in a group setting. The AP Biology and AP Environmental courses are designed to offer students a solid foundation in introductory college-level biology and ecology. These courses are structured around inquiry and

critical thinking. At the end of these courses, students will have an in depth awareness of the study of biology,

knowledge of biological processes, understanding of interrelationships of the natural world, the ability to analyze

environmental problems both natural and human-made and acquire the skills necessary to examine alternative

solutions for resolving these problems. These courses will prepare students with basic knowledge of health-related professions. Students will also integrate their learning with the AP Computer Science Class and Technology Class, in which students will use software such as Microsoft Office to put together

presentations for their term project. Through their Engineering courses, students will learn the elements to the field of engineering and the different branches associated with engineering (mechanical, electrical, chemical, etc.).

Students will be able to use the CADD (Computer-Aided Design and Drafting) software for sketching to generate two- and three-dimensional drawings based on spatial relationships, multi-view projections, dimensioning, graphical presentation of data and fundamentals of computer graphics.

Edinburg College Prep has partnered with AEC Engineering, LLC firm to provide students the experience to apply the learning in real world scenarios. Partnering with AEC Engineering will allow our students to

participate in internships, attend professional presentations, observe the design process and participate in Q&A

sessions with engineers. We plan on providing students with educational tours to local health agencies and hospitals. Students will be able to correlate their classroom learning to real life settings. Students will also tour local

manufacturing facilities so they can bring to life concepts taught in the classroom and see how technology is applied in real world factories.

IDEA Edinburg will work in close collaboration with UTRGV to give students an opportunity to tour IDEA Edinburgh College Prep // T-STEM // Renewal // [nayeli.velasquez@ideapublicschools.org](mailto:nayeli.velasquez@ideapublicschools.org) UTRGV's Engineering, Science and Health Laboratories and even use some of the equipment to complete

experiments or projects

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

The after school programs include: Robotics, Gaming Club, Computer Programming/Refurbishing Club, Eagles Club (Horticulture Club), Journalism, Yearbook and 3D printing. Scholars have shown an increased participation and a sense of involvement at our campus when they are enrolled in STEM based clubs.

As a campus, we will increase our student retention rate by planning rigorous clubs and offering support by

teaching the fundamentals of engineering, adding lectures including principles of engineering, physics, electronics, mechanics, and computer programming. These activities have allowed our students the opportunities to gain knowledge, apply the learning and compete at local events such as (HESTEC - Hispanic Engineering, Science and Technology) at the University of Texas Rio Grande Valley and UIL (University Interscholastic League). Students

participating in middle school and high school UIL Academics compete in Science, Calculator Applications, Mathematics, Accounting and Computer Science. Edinburg College Prep students also participate in STEM CSAP (College Summer Away Programs) in conjunction with prestigious colleges and universities. Through these programs, students experience college life and participate in practical applications in STEM related studies. Our middle school students also participate in pre-engineering and pre-health internships with local universities during the summer. By experiencing real-world applications through TexPrep, a four year pre-engineering track, students acquire knowledge in mathematics, science, technology and engineering. This enrichment influence and strengthen the potential of students for careers in STEM fields.

IDEA College Prep Edinburg ensures that students experience colleges that are rated as top tier universities through our college field lessons beginning in the 6th grade. Students visit regional, state, and out-ofstate universities with the intent that they have visited a variety of programs and schools. In correlation with

the college field lessons, our Road To and Through College presentations for middle school and courses in

high school, give parents and students the skills to learn about the college selection, application, and transition processes. By the time ICPE students are in the 12th grade, they have visited 20 colleges, and have

created a list of 10 Match and Fit colleges of choice for which they will apply.

We also provide adventure-based learning tailored for students, teachers, staff and administrators.

Students spend the day exploring the natural world through activities such as archery, plant and animal identification, team-building, canoeing, and many others at our very own Camp Rio.