



T-STEM @ North
T-STEM Renewal Application
2018-2019

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Background

District Affiliation

EDINBURG CISD

DC #: 108904

Region: 01

Mailing Address (Line 1): P O BOX 990

Mailing Address (Line 2):

City, State, Zip: EDINBURG, TX 78540

School Affiliation

EDINBURG NORTH H S

CDC #: 108-904-003

Region:

Mailing Address (Line 1): P O BOX 990

Mailing Address (Line 2):

City, State, Zip: EDINBURG, TX 78540

Academy Information

T-STEM Academy Name:

T-STEM @ North

What grade level range will your academy serve in the 2018-2019 school year?

9-12

Grade Level	Number of Students
9	51
10	37
11	25
12	23

Contacts

Business Partner

Affiliation: Doctor's Hospital at Renaissance

Job Title: Executive Senior Vice President Chief Operations Officer

Full Name: Mrs. Marissa Castaneda

Email: m.castaneda@dhr-rgv.com

Phone Number: 956-362-3102

Superintendent

Job Title: Superintendent

Full Name: Dr. Rene Gutierrez

Email: rene.gutierrez@ecisd.us

Phone Number: 956-289-2300

Applicant

Job Title: Assistant Principal/ECHS-STEM Director

Full Name: Mr. Jose Chapa

Email: jose.chapa@ecisd.us

Phone Number: 956-289-2500

IHE Liaison

Affiliation: South Texas College

Job Title: STC Director for ECHS

Full Name: Ms. Sofia Pena

Email: sofia21@southtexascollege.edu

Phone Number: 956-872-2303

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

Endorsements

Identify the current endorsements that are offered:

- Science, Technology, Engineering, and Mathematics (STEM)
- Business and Industry
- Public Services
- Arts and Humanities
- Multi-disciplinary Studies

Industry Certificates

Identify all industry certificates offered to students.

Certificate	Description
Adobe Certified Associate-Dreamweaver	Adobe Dreamweaver software is the industry standard for creating and editing compelling HTML rich media websites and mobile apps. Through the use of Fluid Grid Layout, designers construct co
Adobe Certified Associate-Illustrator	Adobe Illustrator software is the industry's premier vector-drawing environment for creating scalable graphics. Digital media gurus bring their unique vision to life with shapes, color, ef
Adobe Certified Associate-InDesign	Adobe InDesign is a powerful tool that sets the industry's new standard for print and digital page layout. Offering pixel-perfect control over design and typography, users can create elega
Adobe Certified Associate-Photoshop CS5 (CS6)	Adobe Photoshop is the industry-standard image editing software, used worldwide by professional photographers, amateur photographers, and designers who want to perfect their digital images b
American Welding Society (D1.1)	The Certified Welder program is a performance-based program with no prerequisite courses or certifications required. Final certification will provide "transferrable" credentials that you may
Cosmetology	The cosmetology lab courses allow students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regu
Certified Nurses Assistant	Certification as a nurse aide through the National Nurse Aide Assessment DESCRIPTION Program (NNAAP) meets the nurse aide examination requirement of the federal and state laws and regulation
CPR	The American Heart Association instructor certification provides for the training and education of health care personnel in emergency cardiovascular care and the prevention of stroke and hea
Edinburg CISD Substitute Certificate	teacher substitute
Emergency Dispatch Telecommunicator	The Emergency Medical Services Information Operator (Emergency Medical Dispatcher-EMD) certification provides for the delivery of medical information to the public during medical emergencies
Hunter's Education Certificate	hunters education/licence
OSHA	A certificate of completion (card) that affirms a student has completed an OSHAapproved ten hour general industry advanced safety-training

program.

Pharmacy Technician	The Pharmacy Technician certification provides the knowledge and skills needed to prepare, distribute, label and package pharmaceuticals, and to patients' medication profiles in specified
Phlebotomy	The Phlebotomy Technician certification encompasses the knowledge and DESCRIPTION skills necessary to collect and handle blood specimens used in diagnosing and tracking illnesses, drug testi
ServSafe Food Handlers	ServSafe© Food Protection Management Certification provides individuals training in basic food safety concepts, prevention of food borne illness outbreaks, and reduction of liability in th
ServSafe-Food Manager Certification	ServSafe© Food Protection Management Certification provides individuals training in basic food safety concepts, prevention of food borne illness outbreaks, and reduction of liability in th
TSFA Floral Design-Knowledged Based Certification	The High School Floral Certification program, administered by the Texas State Florists' Association (TSFA), allows a student to achieve certification for entrylevel floral design
AutoCAD Certified Associate	Our AutoCAD 2000 (U.S.) test measures students' ability to design in two dimensions using AutoCAD 2000. Designed for experienced users, this test covers the following topics: Getting Start

Level One Certificates

Identify all level one certificates offered to students.

Certification	Description
**STC Certificate-Computer Applications	The Computer Applications Specialist program prepares students to meet the demand for advanced skills and knowledge in some of today's leading business applications. Students completing this
STC Certificate-Computer Internet Specialist	This one-semester specialization will provide students with the foundation technical skills required in the use of computers and the Internet. Students will learn entry-level skills needed t
STC Certificate-Multimedia	The Multimedia Specialist Certificate is intended for students who are interested in the multimedia side of technology. In addition to gaining experience with business productivity software
STC Certificate-Emergency Medical Technician Basic Certification	The Emergency Medical Technology program will prepare students to deliver out-of-hospital emergency care at the scene of an accident or a medical emergency. EMTs typically serve as vital mem

Level Two Certificates

Identify all level two certificates offered to students.

Certification	Description
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Key Elements for Success

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

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.248858_mid.466204

Provide a link to your mission statement.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.248857_mid.450424

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

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258231_mid.466181

Provide a link to the academy's master schedules.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.248858_mid.466204

Provide a link to the academy's Student IGPs with CCRS and Performance Acknowledgement Plans.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.284343_mid.512259

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

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258230_mid.513757

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://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258230_mid.513757

Provide a link to the academy's description of instruction practices.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258230_mid.513757

Provide a link to the academy's STEM-focused extracurricular activities.

<http://enhs.edinburg.schooldesk.net/>

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

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258245_mid.466226

Provide a link to the academy's Senior Capstone Project description.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258230_mid.513840

Provide a link to the academy's Student Portfolio Plans.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.258230_mid.513841

Provide a link to the academy's Academic Literacy Plan.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.248857_mid.450424

Provide a link to the academy's Assessment strategy.

http://myschooldesk.net/ecisd/teachersite.aspx#site.71104_pid.248857_mid.450424

Free-Response

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

The ECHS/STEM @ North Academy does an excellent job in retaining highly qualified teachers. We are a school-with-in a school; therefore, we adhere to ECISD employment practices but we do interview and hire the best qualified teachers. In the hiring process, we do look for teachers who possess a master's degree and if not, we encourage them to complete their master's program. Summer 2018, we will be sending some teachers to the UT On Ramps conference where upon completion, they will receive a certificate qualifying them to teach Dual Enrollment courses. We send our teachers to several professional development conferences or training's throughout the summer and school year. One strategy that we have started to implement are PBL's or Project-Based Learning activities. This approach to teaching greatly enhances our student's success and will prepare them for a college and Career Readiness future. Common Instructional Framework (CIF) as well as Sheltered Instruction Observation Protocol (SIOP) are two other teaching strategies implemented. Advance Placement (AP) and Dual Credit (DC) training are also offered to our teachers as well. Webinars and Networking have also been part of our teacher's training. The cohesiveness that exists between our teachers is such that they all work well together. Our selected ECHS teachers have bought into our academy and have a desired, personal feeling to promote the program in any capacity whatsoever. Several of our teachers take part in many of our community events. These teachers go on and beyond the call of duty for the success of our ECHS students. The fact that our academy classrooms are clustered in the same area, helps a great deal to see and visit with each of our students. This incorporates our Professional Learning Community or PLC. The teachers assist one another when an issue arises with our students, whether academic or personal. This aspect of our program is what makes it unique. We highly encourage our students to do well in all their classes and push them along extensively in order for them to become TSI ready. Our ECHS counselors visit, schedule, and help enroll them in their South Texas College courses. This is now the beginning of their college career pathway.

Describe the current STEM pathways available at the academy.

Our STEM pathways are in conjunction with our IHE partner and ECISD curriculum. CTE courses are a big part of our pathways as well. This includes Engineering with an emphasizes in Robotics, Science, and Math.

Within the Business and Industry Endorsement area, we have Audio/Video technology, Information Technology, Manufacturing, and Transportation, and In the Public Services Endorsement we offer Health Science. STEM pathways are very much aligned to our ECISD curriculum and TEKS. We do have many of our students who are currently part of our community workforce. By incorporating many of the Career and Technology Education courses into our STEM academy, students will then have the opportunity to be part of the Industry-Based partnership. We adhere to the T-STEM Blueprint and adjust as we go along for those intangibles. One of our goals is that our students will be completing one college-level math or science course by end of 12th grade (any) by graduation. Students will be able to earn between 15 and 30 college credits (any) by graduation. Earning a post-secondary degree and/or credential or an Associates Degree by high school graduation is another of our academy goals.

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.

T-STEM ECHS and the COLLEGE shall provide a course of study that enables a participating student to receive a high school diploma and either an associate's degree or 60 semester hours towards a baccalaureate degree during grades 9-12. The COLLEGE will give credit for courses taken for dual credit and earned with approved Dual Enrollment Faculty (DEF) or South Texas College Faculty with primary emphasis on the Core Curriculum requirements for all Associate of Arts and Associate of Science degrees. T-STEM ECHS students will receive an academic degree plan upon the completion of a career and program of study interest inventory. If eligible, a T-STEM ECHS student may simultaneously complete their Core Curriculum and courses for field of study according to the COLLEGE's suggestion of course sequencing and degree. Such courses shall have been evaluated and approved through the official COLLEGE curriculum approval process and shall be taught at the college level. Enrollment in courses outside of the student's selected degree plan will require approval from the T -STEM ECHS and the COLLEGE prior to enrollment in the course.

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

One of our many goals at ECHS/T-STEM @ North is to have our students graduate from high school in four years.

Throughout this process, our students could complete up to 30 college credit hours via Dual Credit, Advanced Placement, articulated, and concurrent enrollment courses. In order to prepare our students for the 21st Century, a project-based learning curriculum will be implemented. This type of curriculum will include collaboration, team work, creativity, and a wide range of imagination. These type of problem solving skills will aid our students to successfully compete in the global market. AVID is a course that we offer to our incoming freshmen. STEM portfolios are created and maintained throughout their high school years. This will help them gather and store artifacts that will help them once they get to their senior year in order to fulfill their internship and internship requirement. This ultimately is their referenced "Tool Box" which they will be able to use in the future. As a primary source, we invite guest speakers and industry representatives to give us insight to their field. One such speaker from U.S. Department of Justice of the Federal Bureau of Investigation was Special Agent LJ Gionei. She did an excellent job and had the interest of our students. The fascinating thing about the FBI is how many other STEM related fields evolve from this agency. Through our IHE partner South Texas College and Region One, our students are exposed to field experience activities. We want to focus on having most, if not all, of our students participate in work-based learning experiences. This will prepare them for real-life situations. In order to expose our students to diverse educational environments, every year we take our STEM students on college and university tours as part of our Career Exploration platform. This becomes an incentive for our students to choose a career in any STEM field.

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

STEM-focused extracurricular activities at our Academy include UIL Science, Mathematics, Calculator, Number Sense, Computer Science, and Computer Applications. Our students have participated in Master Minds and have done well. Similar to Master Minds, our students take part in what we call Science Bowl, but the focus is only in STEM related questions. Academic Decathlon is another activity which we have our students participate in. HOSA or Health Occupations Students of America is very strong in our academy. Students have a big interest in our health occupations. Another extracurricular activity that is becoming more of an interest is our Forensic Science Competition.