



LANCASTER H S  
T-STEM Renewal Application  
2019-2020

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# Background

## District Affiliation

LANCASTER ISD

CD #: 057913

Region: 10

Mailing Address (Line 1): 422 S CENTRE AVE

Mailing Address (Line 2):

City, State, Zip: LANCASTER, TX 75146

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## School Affiliation

### LANCASTER H S

**CDC #:** 057-913-001

**Region:**

**Mailing Address (Line 1):** 200 E WINTERGREEN RD

**Mailing Address (Line 2):**

**City, State, Zip:** LANCASTER, TX 75134

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### LANCASTER MIDDLE

**CDC #:** 057-913-041

**Region:**

**Mailing Address (Line 1):** 822 W PLEASANT RUN RD

**Mailing Address (Line 2):**

**City, State, Zip:** LANCASTER, TX 75146

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### G W CARVER 6TH GRADE STEM LEARNING CENTER

**CDC #:** 057-913-042

**Region:**

**Mailing Address (Line 1):** 1005 WESTRIDGE

**Mailing Address (Line 2):**

**City, State, Zip:** LANCASTER, TX 75146

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## Academy Information

**T-STEM Academy Name:**

LANCASTER H S

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

No

**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	517	G W CARVER 6TH GRADE STEM LEARNING CENTER (057913042)
7	532	LANCASTER MIDDLE (057913041)
8	512	LANCASTER MIDDLE (057913041)
9	505	LANCASTER H S (057913001)
10	502	LANCASTER H S (057913001)
11	463	LANCASTER H S (057913001)
12	443	LANCASTER H S (057913001)

# Contacts

## Business Partner

**Affiliation:** Oncor Electric Delivery  
**Job Title:** Area Manager, Community and Customer Relations  
**Full Name:** Mr. Kenneth Govan  
**Email:** contactcenter@oncor.com  
**Phone Number:** 972-230-5135

## Superintendent

**Job Title:** Superintendent  
**Full Name:** Mr. Elijah Granger  
**Email:** elijahgranger@lancasterisd.org  
**Phone Number:** 972-218-1400

## Applicant

**Job Title:** Coordinator College, Career, and Military Readiness  
**Full Name:** Dr. John Price  
**Email:** johnprice@lancasterisd.org  
**Phone Number:** 972-218-1439

## IHE Liaison

**Affiliation:** City of Lancaster  
**Job Title:** Mayor  
**Full Name:** Mr. Clyde Hairston  
**Email:** chairston@lancaster-tx.com  
**Phone Number:** 972-218-1310

## Business Partner

**Affiliation:** Experience Aviation  
**Job Title:** Program Manager  
**Full Name:** Mr. Rajeev Brown  
**Email:** rbrown@experienceaviation.org  
**Phone Number:** 305-537-9291

## IHE Liaison

**Affiliation:** Dallas Community College District

**Job Title:** Chancellor

**Full Name:** Dr. Joe May

**Email:** jmay@dcccd.edu

**Phone Number:** 214-378-1601

# 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: Multiple Campuses - A subset of students in grades 6-12 are enrolled in the T-STEM academy. This model typically spans a middle school and high school. This may also be applicable if 9th grade is on a separate campus due to physical space issues.

## 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



## 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://lhs.lancasterisd.org/apps/pages/index.jsp?uREC\\_ID=1143510&type=d&pREC\\_ID=1406684](https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC_ID=1143510&type=d&pREC_ID=1406684)

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

[https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC\\_ID=1143510&type=d&pREC\\_ID=1406684](https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC_ID=1143510&type=d&pREC_ID=1406684)

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

[https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC\\_ID=1143510&type=d&pREC\\_ID=1406684](https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC_ID=1143510&type=d&pREC_ID=1406684)

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

[https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC\\_ID=1143510&type=d&pREC\\_ID=1406684](https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC_ID=1143510&type=d&pREC_ID=1406684)

**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://lhs.lancasterisd.org/apps/pages/index.jsp?uREC\\_ID=1143510&type=d&pREC\\_ID=1406684](https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC_ID=1143510&type=d&pREC_ID=1406684)

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

[https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC\\_ID=1143510&type=d&pREC\\_ID=1406684](https://lhs.lancasterisd.org/apps/pages/index.jsp?uREC_ID=1143510&type=d&pREC_ID=1406684)

## Free-Response

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

Lancaster ISD T-STEM Academy will use various marketing strategies to recruit highly qualified teachers, including but not limited to social media, billboards, and website banners. Lancaster ISD also hosts job fairs and other networking mixers to attract highly qualified teachers. To support and retain teachers, the district will:

- offer stipends for specific STEM areas;
- provide high quality on-going professional development;
- provided opportunities for teachers to attend STEM conferences and out-of-district professional learning sessions; and
- encourage and support teachers' attainment of certifications and credentials to implement STEM and dual credit courses.

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

The following STEM pathways are available at the Lancaster ISD T-STEM Academy:

• Engineering – STEM

Students receive education and training in Engineering Design & Presentation and Robotics courses. Students in this pathway work toward certification in SOLIDWORKS.

• Business Administration - Business & Industry

Students receive education and training in entrepreneurship knowledge and skills through a progression of courses including Business Management, Accounting, Business Law, and Entrepreneurship.

• Graphic Communications- Business & Industry

Students receive education and training in multiple levels of Graphic Design & Illustration. Students also gain experience in a student-led campus-based graphic design company during the practicum level of Graphic Design & Illustration.

• Media Technology- Business & Industry

Students receive education and training in multiple levels of Audio/Visual production courses while applying knowledge and skills in a campus-based television studio. Students in this pathway also intern with the district's athletics department to provide audio/visual services at athletic events.

• Information Technology - Business & Industry

Students receive education and training to develop skills in both hardware and software components of technology. Computer Maintenance and Computer Programming are two courses within this pathway.

• Health Science - Public Services

Students in the health science pathway receive education and training in courses (such as Medical Terminology, Health Science Theory, and Anatomy & Physiology) common across various medical professions. At the practicum level, students have the option of pursuing certifications in Pharmacy Technology or Medical Assisting (CMA).

• Agriculture, Food, & Natural Resource - Public Services

Students receive education and training in agriculture with an emphasis in plant science. Students in this pathway gain experience in Landscape Design & Management, Turf Grass Management, and Horticultural Science. Students will have an opportunity apply their knowledge and skills gained by working with the district's athletics department on the turf football field and by developing a district greenhouse located off-campus on the district's agricultural complex.

**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.**

The Lancaster High School T-STEM Academy will continue to develop collaborative working relationships with IHEs, business, and community partners. Higher education partners are utilized to offer students mentors, tutoring services, and dual credit opportunities. Business and community partners are utilized to support teaching and learning, extended learning opportunities (i.e. job shadowing), extra-curricular learning experiences for students and teachers, internships, and virtual learning experiences. Community partners are also utilized to engage parents and community members in reciprocated community service projects and to provide social and emotional support for students and their families.

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

All students attending Lancaster High School experience work-based and contextual learning in the STEM pathway courses previously outlined. In the career pathway courses, students obtain practical experiences with theory of knowledge and study to be entrepreneurs as well as practitioners in the field. Additionally, core teachers utilize problem- and project-based learning (PBLs) to provided contextual learning experiences for students. PBL units incorporate inquiry-based learning methodology connected to specific industry professions and provide collaboration opportunities with industry experts to enhance students' knowledge and skills in a real-world context.

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

The Lancaster High School T-STEM Academy continuously searches for local, regional, and national organizations and competitions within which students can participate, become involved, and compete. These experiences include field trips to gain awareness and/or hands-on application, club memberships such as TAME (Texas Alliance of Minorities in Engineering), NSBE Jr. (Junior National Society of Black Engineers), and Nursing Health Club, as well as various competitions across the state, NASA competitions to name one.

The following STEM clubs and competitions are implemented annually:

LHS Tigers Engineering Club  
NSBE Jr. Student Chapter  
NASA International Space Settlement Competition  
Mu Alpha Theta  
GEMS (Girls in Engineering, Math and Science)  
Physics and Engineering Day  
Video Gaming Club  
Robotics Club  
Texas Pre -Freshman Engineering Summer Bridge Camp  
STEM Summer Bridge  
National Honor Society (NEHS, NJHS)  
Hour of Code