



SHALLOWATER H S  
T-STEM Renewal Application  
2020-2021

# Contents

[Background](#)

[Contacts](#)

[Narratives](#)

[Narratives: Degrees and Credentials](#)

[Narratives: Strategic Partnerships: IHE, Strategic Partnerships:  
Business Partner](#)

[Narratives: Regional Workforce Alignment, Work-Based  
Learning](#)

[Narratives: Advanced Academics](#)

[Narratives: STEM-Focused Extracurriculars, Student Support](#)

[Narratives: Leadership Team](#)

[Narratives: Benchmark 1 Products, Benchmark 2 Products,  
Benchmark 3 Products, Benchmark 4 Products, Benchmark 5  
Products, Benchmark 6 Products, Benchmark Products](#)

[Download Assurances Signature Page](#)

# Background

## District Affiliation

SHALLOWATER ISD

CD #: 152909

Region: 17

Mailing Address (Line 1): 1100 AVE K

Mailing Address (Line 2):

City, State, Zip: SHALLOWATER, TX 79363

---

## School Affiliation

### SHALLOWATER H S

**CDC #:** 152-909-001

**Region:**

**Mailing Address (Line 1):** 1100 AVE K

**Mailing Address (Line 2):**

**City, State, Zip:** SHALLOWATER, TX 79363

---

### SHALLOWATER MIDDLE

**CDC #:** 152-909-041

**Region:**

**Mailing Address (Line 1):** 1100 AVE K

**Mailing Address (Line 2):**

**City, State, Zip:** SHALLOWATER, TX 79363

---

## Academy Information

**What is the academy name?**

Shallowater T-STEM Academy

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

Stand Alone Academy - All students on the campus are enrolled in the academy.

## Grade Levels Served

**What grade level(s) will your academy plan to serve in the 2020-2021 school year?**

6

7

8

9

10

11

12

**Enter the number of students that you plan to serve in 6th grade.**

121

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

148

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

128

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

116

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

141

---

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

101

---

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

112

---

# Contacts

## Applicant

### Applicant 1

#### Job Title

Special Programs Coordinator

#### Name Prefix

Mrs.

#### First Name

Shawna

#### Last Name

Haynie

#### Email

shaynie@shallowaterisd.net

#### Phone

806.832.4535

## Principal

### Principal 1

#### Name Prefix

Mr.

#### First Name

Rob

#### Last Name

Hollis

#### Email

rhollis@shallowaterisd.net

#### Phone

806-832-4535

## Superintendent

### Superintendent 1

#### Name Prefix

Dr.

#### First Name

Kenny

#### Last Name

Border

#### Email

kborder@shallowaterisd.net

#### Phone

806-832-4535



# Narratives

Current Designations at SHALLOWATER ISD:

- SHALLOWATER H S - T-STEM - 1314

Previous Planning Year Applications at SHALLOWATER 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

## Degrees and Credentials

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

Agriculture  
Architecture & Construction  
Arts AV Tech & Communication  
Business Marketing Finance  
Education and Training  
Health Science  
Hospitality & Tourism  
Human Services  
Information Technology  
Law & Public Service  
Manufacturing  
STEM

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

Agribusiness  
Animal Science  
Applied Agricultural Engineering  
Environmental and Natural Resources  
Food Science and Technology  
Plant Science

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

Architectural Design  
Construction Management and Inspection  
Carpentry

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

Digital Communications  
Graphic Design and Multimedia Arts

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

Accounting and Financial Services  
Business Management

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

Early Learning  
Teaching and Training

---

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

Bio-Medical Science  
Exercise Science and Wellness  
Health Informatics  
Healthcare Diagnostics  
Healthcare Therapeutics  
Nursing

---

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

Culinary Arts  
Travel, Tourism, and Attraction

---

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

Family and Community Services  
Health and Wellness

---

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

Cybersecurity  
Information Technology Support and Services  
Networking Systems  
Programming and Software Development  
Web Development

---

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

Law Enforcement

---

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

Advanced Manufacturing and Machinery Mechanics  
Engineering  
Welding

---

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

Biomedical Science  
Cybersecurity  
Engineering  
Programming and Software Development

---

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

AD  
PSC  
IC

**What associate degree(s) does the academy plan to offer?**

Item

Pre-Health Occupations

Culinary Arts

Industrial Welding Technology

**What level 1 postsecondary certificate(s) provided by an IHE does the academy plan to offer?**

Item

Certified Nurse Assistant

Pharmacy Technician

Microsoft Office Certification

**What industry certifications does the academy plan to offer?**

Item

Microsoft Office Specialist Excel

Microsoft Office Specialist Word

Microsoft Office Expert Excel

Microsoft Office Expert Word

Feedyard Technician in Cattle Care and Handling

Texas State Floral Association Floral Skills Knowledge Based Certification

Certified Pharmacy Technician

ServSafe Manager

AWS D9.1 Sheet Metal

Microsoft Technology Associate (MTA) Introduction to Programming Using JavaScript

Intuit QuickBooks Certified User (QBCU)

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 Arst	South Plains College	N/A
Associates of Science	South Plains College	N/A
General Studies	South Plains College	N/A

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

### Strategic Partnerships: IHE

#### IHE Partner 1

##### Affiliation

South Plains College

##### Name Prefix

Mr.

##### First Name

Robyn

##### Last Name

Satterwhite

##### Email

rsatterwhite@southplainscollege.edu

##### Phone

806-7162200

##### 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.**

Only those college-level academic courses identified in the South Plains College catalog, approved by the Curriculum Committee and Academic Council at the College, and listed in the current edition of the Lower Division Academic Course Guide Manual or Workforce Education Course Manual will be offered for dual credit.

**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**

The College will provide dual credit students with the same access to academic advising, counseling, computer services, and library services and resources that it provides to other college students. The students also will have access to library services at the high school. Students who anticipate a need for special accommodations must contact the Special Services Office on the Levelland campus. Adequate notice to make arrangements for necessary accommodations is required. The Texas Administrative Code, rule §9.145 requires that grading criteria should be devised to allow faculty to award high school only or both high school and college credit depending upon student performance. Pursuant to the is requirement, and in recognition of the High School's role in awarding high school credit, South Plains College agrees that the High School will determine whether to award high school credit in the event that college credit is not awarded. Appropriate credit will be transcribed immediately upon a student's successful completion of the course. High school students are considered college students if they are enrolled in a college course. College personnel only report mid-term and final grades and do not provide "fail" notices to districts for UIL purposes. Numeric grades will be furnished to the high school for those students that have signed a waiver of release of information.

**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.**

All dual credit courses are completed on the High School campus and no transportation costs are incurred by the students.

**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**

Shallowater TSTEM Academy will provide data showing each student is college ready through TSIA, ACT, or SAT. South Plains College will provide grades for course work to Shallowater TSTEM Academy. Dual Credit classes will be proctored by a Shallowater TSTEM Academy employee. The final grade will be included in the students college GPA, but not in the High School GPA.

## Strategic Partnerships: Business Partner

### Business/Industry Partner 1

#### Affiliation/Company

Mr. DNA

#### Job Title

CEO, CSO Laboratory Director

#### Name Prefix

Dr.

#### First Name

Scot

#### Last Name

Dowd

#### Email

scotedowd@mrdnalab.com

#### Phone

806-789-7984

**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.**

When students work with Industry partners, the partners responsibilities are limited to work supervision only. Teachers and support personnel supervise students during transportation and classroom activities.

**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 partners meet with students on a regular basis to prepare for science fair and robotics competitions. Those partners generally attend and assist students at those competitions, but Faculty sponsorship is also required.

**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.**

Shallowater TSTEM Academy is responsible for transportation to and from work based facilities. Mr. DNA is responsible for on site services and resources.

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

All transportation fees and cost will be covered by Shallowater TSTEM Academy.

## 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

Office Administrative Services

Medical related services

Machinery

Computer related services

### 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 6th grade students.

#### 6th Grade Activities

Career Day

Add up to three activities offered to 7th grade students.

#### 7th Grade Activities

Every 7th grader is enrolled in a Careers Course with regular work based learning experiences.

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

#### 8th Grade Activities

Texas Tech Health Science Center and Allied Health career expo.

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

#### 9th Grade Activities

Robotics Club

Science Fair Research and Participation

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

#### 10th Grade Activities

Robotics Club

Science Fair Research and Participation

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

#### 11th Grade Activities

Robotics Club

Science Fair Research and Participation

**11th Grade Activities**

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

**12th Grade Activities**

Robotics Club

Science Fair Research and Participation

## 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?

Most of our dual credit classes are taught online and monitored by a Shallwater TSTEM Academy employee, but taught by South Plains College Faculty. Our one on-ramps teacher attended a 5 day training at UT in Austin to be certified to teach the course.

Is the academy a TSIA testing site?

Yes

## Narratives: STEM-Focused Extracurriculars, Student Support

## Student 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
One on one graduation plan	Counselors schedule one on one sessions with all in coming freshman and their parents.
College and Career Night	Different colleges and universities as well as technical schools and military representatives set up booths and all Shallowater HS students and their families are invited to attend and listen to presentations and are given the opportunity to visit with representatives from the various entities.
FAFSA Night	Representatives come to present information about what FAFSA is, how to fill it out and provide opportunities to sign up for one on one assistance filling out FAFSA.
Fish Camp	All in coming freshman and their parents are invited to attend an informational meeting the week before school starts. Students are given their schedule and are escorted by an upper classman around the building to get to know the layout before the first day of school.

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
Workforce Shadowing	Students shadow employees and eventually learn trades and begin jobs in the field.
College Visits	Counselors take seniors on 3 college visits per year.
Career Expo	Students are taken to an event where they are exposed to changes in workforce and industry jobs and college courses. Industries present latest technologies in their field and discuss education and training requirements.

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

We review all the data and determine which, if any, demographics are being underserved. The only demographic we fell short in this year was females. We created recruitment videos for all of our programs with a heavy emphasis on including females in all our programs. The special programs director meets one on one with students from any demographic that has the potential to be successful in STEM classes and activities to encourage them to choose those options.

## STEM-Focused Extracurriculars

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

Shallowater T-STEM students participate in FIRST Robotics, Intel Science and Engineering Fair, Rocketry Competitions, Science Bowl, Texas Alliance for Minorities in Engineering Contests, Early Dedication to Medical Education Internships, High School Aerospace Scholars programs, National Youth Leadership Forums in Medicine, as well as other leadership activities through Student Council, FFA, FCCLA, TAFE, and Skills USA competitions. Moreover, our students actively participate in summer internship work with multiple area veterinarians, the Texas Workforce Commission, John Hopkins Medical School and Texas Tech Health Science Center.

## 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
Benchmark 6: Student Support	The Shallowater HS TSTEM Academy leadership team has made it a priority to make sure that students are provided ample support in both the academic and technical skills necessary for high school and college readiness. Additionally, the team will strive to provide necessary support for student success in academics and work-based learning experiences.
Benchmark 1: School Design	The leadership team is dedicated to bridging any gaps between middle school and high school STEM programs.
Benchmark 2: Target Population	The leadership team is dedicated to the purposeful recruitment of at-risk students for STEM programs, especially female 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.**

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

## Benchmark 2 Products

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

**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.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

**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.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

## Benchmark 3 Products

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

**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.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

## Benchmark 4 Products

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

**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.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

## 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.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

**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.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

## Benchmark 6 Products

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---

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

[https://www.shallowaterisd.net/234562\\_2](https://www.shallowaterisd.net/234562_2)

---