HARMONY SCIENCE ACADEMY-HOUSTON

T-STEM Renewal Application

2020-2021

Contents

Background

District Affiliation

HARMONY SCIENCE ACADEMY

CD #: 101846
Region: 04
Mailing Address (Line 1): 14100 SOUTHWEST FRWY
Mailing Address (Line 2):
City, State, Zip: SUGARLAND, TX 77478

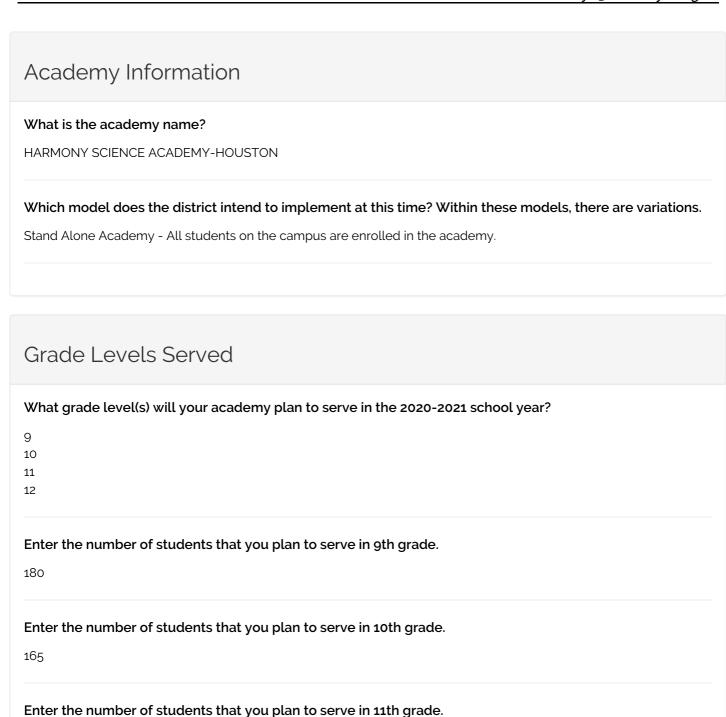## School Affiliation

HARMONY SCIENCE ACADEMY-HOUSTON

CDC #: 101-846-001
Region:
Mailing Address (Line 1): 9431 W SAM HOUSTON PKWY S
Mailing Address (Line 2):
City, State, Zip: HOUSTON, TX 77099

Academy Information

What is the academy name?

HARMONY SCIENCE ACADEMY-HOUSTON

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?

9
10
11
12

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

180

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

165

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

150

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

140

Contacts

Applicant

Applicant 1

Job Title

Dean of Academics

Name Prefix

Mr.

First Name

Muhammed

Last Name

Kaya

Email

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Phone

8325747256

Principal

Principal 1

Name Prefix

Mr.

First Name

Seth

Last Name

Haytyyev

Email

shaytyyev@harmonytx.org

Phone

7134920214

Superintendent

Superintendent 1

Name Prefix

Mr

First Name

Ramazan

Last Name

Coskuner

Email

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Phone

(832) 831-9174

Narratives

Current Designations at HARMONY SCIENCE ACADEMY:

- HARMONY SCIENCE ACADEMY-HOUSTON - T-STEM - 0809

- HARMONY SCHOOL OF INGENUITY-HOUSTON - T-STEM - 1112

Previous Planning Year Applications at HARMONY SCIENCE ACADEMY:

- HARMONY SCHOOL OF SCIENCE - HOUSTON - P-TECH/ICIA - Planning

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.

Arts AV Tech & Communication
Health Science
Manufacturing
STEM

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

Graphic Design and Multimedia Arts

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

Bio-Medical Science

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

Engineering

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

Biomedical Science
Engineering

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

PSC
IC

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

Item

Manufacturing Management

What industry certifications does the academy plan to offer?

Item

Autodesk Certified Professional or User in AutoCAD Civil 3D

Adobe Certified Expert (ACE) - Illustrator

Adobe Certified Associate (ACA) - Photoshop (Visual Design using Adobe Photoshop)

CompTIA IT Fundamentals+

MSSC (Manufacturing Skills Standards Council) Certified Logistics Technician (CLT)

Certified EKG/ECG Technician

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?

No

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

Strategic Partnerships: IHE

IHE Partner 1

Affiliation

Texas College of Health Care Professions

Name Prefix

Dr.

First Name

Himesh

Last Name

Lakhlani

Email

hlakhlani@chcp.edu

Phone

(713) 425-3100

Job Title

Campus President

IHE Partner 2

Affiliation

Houston Community College

Name Prefix

Ms.

First Name

Lilian

Last Name

Baldwin

Email

lilian.baldwin@hccs.edu

Phone

713.718.5807

Job Title

Director

IHE Partner 3

Affiliation

Lone Star College

Name Prefix

Ms.

First Name

Dena

Last Name

Stuttz

Email

dena.c.stuttz@lonestar.edu

Phone

281.655.3704

Job Title

Manager

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.

A crosswalk between College Credit and High School credit is provided to inform students what college courses can be taken at HCC in order to ensure students will also receive High School credit. In addition, it is to ensure the curriculum being taught is equivalent to a high school course. The crosswalk was agreed upon between HCC and Harmony Public Schools District office. Students are welcome to take more than 42 core curriculum courses that are stated in the approved crosswalk. On our campus, we offer two-level one certifications that our students can earn through our IHE partners Payroll Specialist and CPT Manufacturing. In addition, we will offer the following certification exams that a student can earn before they graduate: -Adobe Certification -EKG Certification -Autodesk Certificate -IT Fundamentals

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

Crosswalk consists of core classes that a student can take and transfer to their respective universities. College Counselors are advising students which courses from the crosswalk they should take to fulfill credits toward their intended major/degree plan. To ensure IHE Transcripts college credit is earned that same semester, our IHE partners are providing grade reports at the end of each semester to our campus and all grades that are received are then transcripted immediately upon a students' completion in the course. Students are able to access the facility, service, and resources when needed at our IHE partners.

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 of the students are taking dual credit from IHE either through our embedded courses that are on campus or online.

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

Along with the Student Dual Credit approval forms, high school transcript and College Readiness scores are provided to IHE. At the end of each semester, our IHE partners share with us the grade reports of the courses taken and grade earned. If a student fails to be successful in his or her Dual credit course, they are asked to attend a SLIP session (probation information session) in order to continue to take courses. In order for teachers to be qualified to teach dual credit, they must complete at least 18 hours of college credits towards the subject they are wanting to teach. In order to help increase college readiness scores and keep track, we offer TSI lab courses at each grade level to support them in improving their knowledge in making sure they pass the TSI. The school offers the TSI test several times throughout the semester in the lab course and on the weekends. Harmony Public School agrees that the data transferred from HCC to Harmony PublicSchool is and shall remain the sole and exclusive property of HCC. HCC agrees that the data transferred from Harmony Public School to HCC shall remain the sole and exclusive property of Harmony Public School. The Parties acknowledge under this Agreement that individually-identifiable health information that falls under the protection of the Health Insurance Portability and Accountability Act ("HIPAA"),

Strategic Partnerships: Business Partner

Business/Industry Partner 1

Affiliation/Company

Aviva Wholesale

Job Title

Manufacturing Company

Name Prefix

Mr.

First Name

Etem

Last Name

Kalkan

Email

sales@avivawholesale.com

Phone

(713) 518-7272

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.

These roles are not described in our partnership agreement.

Describe how the Business/Industry articulation agreement addresses the following Business/Industry Blueprint Requirements: Support for students' activities, such a clubs, Career and Technical Student Organizations, competitions, and special invitations.

The business partner(s) assist the school with learning and educational opportunities such as speaking to students at school career fairs, job shadowing, answer related questions, science fairs, or share any internship opportunities.

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.

The business partner(s) assist the school with learning and educational opportunities such as speaking to students at school career fairs, job shadowing, answer related questions, science fairs, or share any internship opportunities.

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

There are no transportation fee and costs. Trips to business facilities are paid by the school.

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

Registered Nurse,Licensed Practical and Licensed Vocational Nurse

Software Developers,Applications

Business Operation and Accountant

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 9th grade students.

9th Grade Activities
Nasa Interaction activity
Informational Interviews with professionals in STEM Field
Career Fair

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

10th Grade Activities
Natural Science Museum
Volunteering Opportunities in the Hospital
The College of Healthcare Professions Summer Internship

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

11th Grade Activities
The Harmony Scientific Research Society internship at TIBER
The College of Healthcare Professions Summer Internship
Nasa Interaction activity

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

12th Grade Activities
The College of Healthcare Professions Summer Internship
Volunteering Opportunities in the Hospital
Provide a list of Summer Programs/Internships to students that they can apply and attend in the summer based on their age and grade level.

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?

WECM
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?

We would like to have our own instructor for dual credit classes, but it is sometimes difficult. We hired qualified staff members for Math and ELA, however we couldn't get someone for Social Studies. TexasonRamp is a great opportunity to offer dual enrollment classes and plan to open more courses with OnRamp.

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
Weekly Counselor Presentation	Counselors will be in the classroom at least once a week for all grades levels for a weekly counseling presentation covering several academic topics.
Meet with Students one by one	Counselors will meet with students one by one for individual guidance and support
College Visits for each grade level	Students will have the opportunity to visit a university and receive admission information
Work Based Learning Opportunity	Counselors will provide opportunities to students where they can either participate or gain knowledge in a specific career

Activity	Description
Tiger STEM Bridge program	All upcoming 9th graders have one-day boot camp to promote STEM Activities
Instructional Intervention	All students receive small group,pull-out or extensive RTI support based on their district assessment data.

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
Presentation on Wrap-Around Service	Provide students with a presentation on what services are provided on our campus for Mental health and family needs
Counseling Services	Counseling services for students who need extra support individually and would like someone to speak too. In addition, our campus plans to hire another counselor on staff who can be available for students any time needed.

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

Based on the data, we are always trying to find ways to improve ourselves as an academy. We as a committee review the data to understand what needs improvement and then set up ways to implement it for student success.

STEM-Focused Extracurriculars

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

There are multiple STEM-related extracurricular activities offered in our campus. Below are some examples: 1. Robotics Program/ Robotics Competitions Students learn and apply the scientific, mathematical, and technological fundamentals behind the construction of robots and the design of control algorithms. They also develop some daily life skills as they build robotic creations, such as visual reasoning, problem solving, teamwork, cooperation, and self discipline. 2. STEM Festivals The goal of STEM festivals is to stimulate the interest of our students, parents, and the public in STEM by organizing fascinating, exciting, educational, and entertaining activities in our schools. Each year, all Harmony high school campuses organize a STEM festival to showcase students' various STEM products. Local influential people, parents, and the public are invited to STEM festivals as we celebrate the success and hard work of our students. Students present a variety of STEM projects in these festivals. 3. STEM Summer Camps STEM summer camps are held as part of leadership camps during the summer. Several fun and hands-on activities are planned for students to engage them in STEM. 4. SeaPerch Underwater Robotics Program SeaPerch is an innovative underwater robotics program that equips teachers and students with the resources they need to build an underwater Remotely Operated Vehicle 5. Team America Rocketry Challenge 6. Shell Eco-Marathon

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
Industry Certification	10% of STEM focused students will earn industry certification by graduation.
College Readiness in Math	TSI College Readiness standards in Math will be at least 85%
College Readiness in ELA	TSI College Readiness standards in ELA will be at least 75%

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://drive.google.com/file/d/1x6fXRO958kqot2Gqs_JbPMZejz3yixqQ/view?usp=sharing

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

https://docs.google.com/spreadsheets/d/1Gp3APobokUhxWKpaw58so8mE-75t3N2Lq_u_XxVbheQ/edit?usp=sharing

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

https://docs.google.com/spreadsheets/d/1IITUjuVTvn8MxTqF6CtG5yJqeosk_nU6Hy9dJGV9hy0/edit#gid=669448222

Benchmark 2 Products

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

https://docs.google.com/document/d/1Nk4CP-oqf2j1jlQdjeWAEVxJVTrUi-AZjHZWGyWMsWQ/edit

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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://drive.google.com/drive/folders/1MiEisrOSgjQH36utyMelO89lab3Eb-a4?usp=sharing

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

https://drive.google.com/drive/folders/1VTapJY0hXoComDt8j5fyqr90sGhT-uhl?usp=sharing

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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://drive.google.com/drive/folders/1VTapJY0hXoComDt8j5fyqr90sGhT-uhl?usp=sharing

Benchmark 3 Products

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

https://docs.google.com/document/d/1RgwNXJ2XSG2ErdVwgmwbjxzd7FBmhtXr4hOH522exg4/edit?usp=sharing

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

https://docs.google.com/document/d/1KOLnqlyQdmxalVrUOlC8UkEsiF6yy-4Y-T9eY_bWXjY/edit#

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

https://docs.google.com/document/d/1QN1p72rLLyP01g60PFaMPhBvrzOaxu5Q5mpO6-7Qr_E/edit

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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://docs.google.com/spreadsheets/d/1umr655VyDxoBAhpYJ10u24NfgYM8OrDDx91BN8hw0QM/edit#gid=0

Benchmark 4 Products

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

https://drive.google.com/file/d/1Z2-L7td-dGPNuqsETt2DK1FQGwDDp0iU/view

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Provide a link to the academy's master schedule.

https://docs.google.com/spreadsheets/d/1_NNiR9VGSVRW2caq8yt5ruoDyqg5ccsPfQp-sL0reCw/edit?usp=sharing

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

https://www.parent.harmonytx.org/curriculum

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

https://docs.google.com/spreadsheets/d/1jYTc9i3JWLzHL05_ANzQZsh_aZJr65bZgdaHaY7hP3E/edit?usp=sharing

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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://drive.google.com/file/d/1XQwBULFQCszmOgAXGh4V7BwCNwFokprJ/view

Benchmark 5 Products

Provide a link to the academy's documentation of appropriate work-based learning expereinces for students at all grade levels.

https://docs.google.com/spreadsheets/d/1hGKHqkUWhdRaP1H0f4URZdSiU_Rk8VTO2Y79maXVwJY/edit#gid=0

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

https://texascareercheck.com/ExploreCareer/OccupationTrends

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.
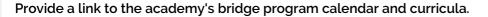
https://docs.google.com/spreadsheets/d/1qFifNLvXVXYKJdRPmVPnnMcz4y1ZuLJc8rS3RtTC3vg/edit#gid=0

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

https://docs.google.com/document/d/13qWGk7oYgW2Is-Iu3hms8UjxlEAns9lqoBz_fcc-UH8/edit

Benchmark 6 Products

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

https://drive.google.com/file/d/1RRT2eGogbjazQd6EBoFGvQqUGMA20m4f/view

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

https://docs.google.com/spreadsheets/d/1Dm9Di5ckw17PfFZcVwLn9-yekIp6tguxI-bZBciEtlg/edit#gid=863990100

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

https://www.calendarwiz.com/calendars/calendar.php?
crd=hsahighhouston&&jsenabled=1&winh=613&winw=1396&inifr=false