



MOODY H S
T-STEM Renewal Application
2020-2021

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Background

District Affiliation

CORPUS CHRISTI ISD

CD #: 178904

Region: 02

Mailing Address (Line 1): P O BOX 110

Mailing Address (Line 2):

City, State, Zip: CORPUS CHRISTI, TX 78403

School Affiliation

MOODY H S

CDC #: 178-904-004

Region:

Mailing Address (Line 1): 1818 TROJAN DR

Mailing Address (Line 2):

City, State, Zip: CORPUS CHRISTI, TX 78416

CUNNINGHAM MIDDLE

CDC #: 178-904-046

Region:

Mailing Address (Line 1): 4321 PRESCOTT

Mailing Address (Line 2):

City, State, Zip: CORPUS CHRISTI, TX 78416

Academy Information

What is the academy name?

Innovation Academy

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

School-Within-School: Multiple Campuses - A subset of students in grades 6-12 are enrolled in the 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.

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.

350

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

364

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

347

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

100

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

75

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

70

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

70

Contacts

Applicant

Applicant 1

Job Title

Dean of STEM Academies

Name Prefix

Dr.

First Name

Gloria

Last Name

Bilaye-Benibo

Email

Gloria.Bilaye-Benibo@ccisd.us

Phone

3618787340

Principal

Principal 1

Name Prefix

Mr.

First Name

Enrque

Last Name

Vela

Email

Enrique.Vela@ccisd.us

Phone

3618787340

Superintendent

Superintendent 1

Name Prefix

Dr.

First Name

Roland

Last Name

Hernandez

Email

Roland.Hernandez@ccisd.us

Phone

3616956900

Narratives

Current Designations at CORPUS CHRISTI ISD:

- MOODY H S - T-STEM - 0708
- COLLEGIATE H S - ECHS - 0607
- HAROLD T BRANCH ACADEMY FOR CAREER & TECHNICAL ED - ECHS - 1415

Previous Planning Year Applications at CORPUS CHRISTI 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.

STEM

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

Engineering

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

NYD

The T-STEM academy shall provide a rigorous course of study that enables students to receive a high school diploma and complete industry certifications, work-based learning experiences, and/or early college credit during grades 9-12. Describe how the campus will develop a rigorous course of study that will enable a participant to receive a high school diploma and complete industry certifications, work-based learning experiences, and/or early college credit during grades 9-12.

In 9th grade, IA students are enrolled in honors level English, Geography, Math, Biology and the AVID College Readiness course. All 9th grade IA students also take the first of several engineering courses, "Introduction to Engineering Design." As 10th graders, IA students continue with honors-level core courses. All 10th grade students will also complete "Principles of Engineering." Students who have an interest in learning more about environmental and/or marine science may also select "Aquatic Science." In 11th grade, Academy students can begin to focus on more specific areas of interest. Students may select from elective courses in Robotics (terrestrial and underwater), Civil & Architectural Engineering, Aerospace Engineering, Environmental Sustainability, and Computer Science Principles All 12th graders in the IA take the capstone course "Engineering/Research Design & Development." This course provides students the opportunity to select a problem, identify a solution to the problem and test the solution. The student is guided by an advisory committee made up of teachers, business/industry and post-secondary representatives.

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
Del Mar College	Texas A&M University, Corpus Christi	Bachelor of Science,

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

Strategic Partnerships: IHE

IHE Partner 1

Affiliation

Del Mar College, C Christi

Name Prefix

Dr.

First Name

Mark

Last Name

Escamilla

Email

mescamilla@delmar.edu

Phone

361-698-1203

Job Title

President/CEO DMC

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. Per conditions in the MOU, DMC and CCISD will collaborate on the following requirements as per the State goals mandated in HB1638: Del Mar College hosting updated "Dual Credit 101" and Continuing Education orientation sessions for CCISD high school counselors; Del Mar and CCISD posting dual credit information on their individual webpages reflecting the most current information; Del Mar College creating a marketing campaign on dual credit and continuing education benefits, while documenting and summarizing outreach efforts. Both parties are ensuring student college readiness with respect to qualifying for and succeeding in entry-level, credit-bearing college courses leading to an associate or certificate without the need for remedial or developmental course work. In addition, Del MC and CCISD will collaborate to provide a course equivalency crosswalk or other method of equating high school courses with continuing education courses and college courses that identifies the number of credits that may be earned for each course completed through the dual credit (refer to Appendix II) or Continuing Education Program.

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

CCISD and Del Mar implement purposeful and collaborative outreach efforts to inform all students and parents of the benefits and costs of dual credit, including enrollment and fee policies. Dual credit programs will assist our high school students in the successful transition to and acceleration through post-secondary education. All dual credit students receive academic and college readiness advising with access to student support services to bridge them successfully into college course completion. The quality and rigor of dual credit courses will be sufficient to ensure student success in subsequent courses. Del Mar College shall ensure that a dual credit or continuing education course is equivalent to the corresponding course offered at the campus of the College with respect to the curriculum, materials, instruction, and method/rigor of student evaluation. These standards must be upheld regardless of the student composition of the class. The courses provide advanced academic instruction beyond, or in greater depth than, the Texas Essential Knowledge and Skills (TEKS) for a corresponding high school course.

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.

CCISD ensures that the state funding for dual credit courses will be available to our students based on the current funding rules of the State Board of Education and the Texas Higher Education Coordinating Board. Our district provides transportation when needed for our students free of charge. In addition, CITGO Refinery has an MOU with Del Mar that provides funding for economically disadvantaged students who qualify

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

Del Mar College shall select instructors of dual credit and continuing education courses. These instructors must be regularly employed faculty members of the College or must meet the same standards (including minimal requirements of the Southern Association of Colleges and Schools Commission on Colleges) and approval procedures used by the College to select faculty responsible for teaching the same courses at the main campus of the College. Each approved dual credit or continuing education faculty member will be supervised by Del Mar's respective department chair or designee.

Strategic Partnerships: Business Partner**Business/Industry Partner 1****Affiliation/Company**

COITGO Refinery

Job Title

Government and Public Affairs Manager

Name Prefix

Mrs.

First Name

Christina

Last Name

Cisneros-Guzman

Email

CCISNER@citgo.com

Phone

361 844-4120

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.

CITGO has been a proud supporter of the academy and its mission to prepare high school students for college programs and careers in STEM. This program includes upper-level engineering, mathematics and science courses. At the forefront of this collaborative partnership is the support that CITGO provides the school to be able to pilot innovative programs like this year's "All Girls Introduction to Engineering Class" and the "Girls in Engineering Math and Science (GEMS) Conference" among others. Additionally, support extends beyond funding, and includes access to mentors, speakers, and opportunities for students and faculty to engage in environmental projects like CITGO Caring for Our

Coast. As just one example of CITGO's broad commitment to STEM education, the Innovation Academy has helped CITGO benefit approximately 650 students..

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.

CITGO is a major supporter of the STEM Innovation Academy, its students and the activities that make the Academy so unique. CITGO has provided much needed suppliesfor our mostly economically disadvantaged students. The students have the opportunity to conduct and present research, visit major colleges and universities, participate in co-curricular academic competitions, and visit with scientists and STEM representatives, as they move through their Academy graduation plan. The CITGO Innovation Academy focuses on increasing students' understanding of the natural world by exposing them to the dynamics and effects of their environment. This unique sponsorship funding provides major supplies/equipment for academy students, field studies at the Texas Floating Classroom, Kayak Camp, College visits, GEMS/Men4STEM district-wide conferences, induction ceremonies, state and national STEM education conferences, professional developments as well as providing travels and competition funds for, Engineering Olympics, Skills USA Engineering and Land/Underwater Robotics, Computer coding, aerospace scholars and National Oceanic Bowl teams. Project Lead The Way (PLTW) students are constantly integrating real-world activities into the classroom and beyond. CITGO's support extends to providing travel and competition funds for the Underwater Robotics team which competes at NASA's Neutral Buoyancy Lab.

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.

CITGO Corpus Christi Refinery and Foy H. Moody High School Science & Health Center have a collaborative working relationship in the support of a program called T-STEM (Texas Science, Technology, Engineering and Mathematics) geared to increase student achievement by engaging and exposing students to innovative science and math instruction while simultaneously acting as a demonstration site to inform math and science teaching and learning statewide. The general expectations agreed upon by both parties not only support our minority/economically disadvantaged student in particular, but the student population.

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

The CITGO Refinery pays for 100% of all the co-curricula activities for the academy through the \$100,000 of FUELING GOOD THROUGH MOODY STEM grant.. This includes travel costs, supplies costs, teacher professional development costs and all the STEM pipeline events hosted by the CITGO Innovation Academy.

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

Software Developer

Biotechnology

Process Technology

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

Science Nights

STEM Day

GTT PLTW

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

7th Grade Activities

GTT classes

STEM Day

Science Nights

AVID

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

8th Grade Activities

GTT

Underwater Robotics

NASA Field trip

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

9th Grade Activities

AVID

Engineering Olympics

Texas Floating Classroom

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

10th Grade Activities

Men4STEM/ Women in STEM Conferences

Engineering Olympics

GIS Day/ Green Goes Green Environmental Clean up

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

11th Grade Activities

Men4STEM/WomeninSTEM Conferences

ExploreUT Day

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

12th Grade Activities

Men4STEM/ Women in STEM Conferences

Texas A& M Engineering Week Compton

Water Engineering Olympics

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?

The qualifications demanded by the college requires teachers have 18 graduate hours in course. Most of our teachers do not have that.. We have a facilitator for all 7 periods, creating a very flexible scheduling process and allowing students to take multiple dual credit classes.

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
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Campus	We work closely with TAMU-CC, TAMU-Kingsville, Del Mar and the Military to provide
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Career
Activity
DaysSTE_based
Description

college and career opportunities for our students. er oppotunities

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
Service Learning	Beach clean up Glass recycling Habitat restoration Destination Imagination projects

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

Data is used specifically in accordance with T-STEM Blueprint #5 for curriculum instruction and assessment. Our school uses the following data to support the vision of the program: • Demographic data • STAAR results • CFA-Common Formative Assessment • CBA-Curriculum Based Assessment • Dual Credits and AP Results • In addition to the above, we have also contracted research analysts from the Center for Educational Policy in Arlington, Virginia for collecting our Pre and Post data. They are funded by the National Science Foundation and supported by the Texas Education Agency. The data focuses on students STEM experiences and interests prior to entering high school and also on other STEM-related experiences in high school and STEM-college/career interests. This helps us generate sharable data about the kinds of experiences that may be preparing our students to pursue STEM majors in Texas and beyond.

STEM-Focused Extracurriculars

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

District-wide GEMS (Girls in Engineering, Math and Science)Conferences City-GEMS(Girls in Engineering, Math and Science)Conferences All-Girls-robotics Team Underwater Robotics Summer Bridge Program District-wide Engineering Olympics

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
Strong Advisory Board Membership	A 46-Menevder board that covers a broad sphere of the community
Professional Development For Teachers	Plan out 3 major professional events for the teachers
Include District Personnel In Campus Meetings	SSend Calendar Invites and follow up with invites

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://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

Benchmark 2 Products

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

Benchmark 3 Products

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

Benchmark 4 Products

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

Provide a link to the academy's master schedule.

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

Benchmark 5 Products

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

Benchmark 6 Products

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)

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

[https://moody.ccisd.us/Organizations/CITGOInnovation\(T-STEMDesignated\)Academy](https://moody.ccisd.us/Organizations/CITGOInnovation(T-STEMDesignated)Academy)
