ITEM A-2

A-2A GOAL PROGRESS MEASURE 4.2. AND 4.3

How many students (per grade level), and teachers are at the following campuses: Secondary DAEP and High School Ahead?

Teachers: HSA – 10; Secondary DAEP – 32

Students: HSA 6th – 27, 8th – 94; Secondary DAEP 6th – 24, 7th – 39, 8th – 51, 9th – 66, 10th – 33, 11th – 12, 12th – 16

Are these teachers eligible for teacher incentives? If not, why?

HISD has announced, beginning in the February strategic plan workshop, a range of incentives for teachers across the district. First and most significantly, the administration's three-year compensation plan will increase the average teacher's salary by more than 17% between June 2022 and August 2024. This is twice as fast as the last roughly 17% increase implemented by prior administrations and prior Board budget approvals - that is, it took current HISD teachers *six* years (since 2015-2016) to earn this level of a multi-year raise. This begins with an average 6.75% increase this summer. This equates to $4,167 on average - certainly the largest one-time average teacher raise in many years and perhaps ever. The average teacher's salary in August 2024 will be more than $10,310 higher than it is in June 2022. Every teacher in the district is included in these salary increases.

Second, teachers who teach in HISD-identified critical shortage areas in SY 2022-2023 will receive critical shortage stipends. These stipends are higher and available to more teachers than in SY 2021-2022. Special education teachers, as well as bilingual education teachers and ESL teachers who complete specific requirements set by the Multilingual department, will receive a $5,000 stipend. Secondary math and science teachers, as well as CTE teachers, will receive a $2,000 stipend. Every teacher in the district is eligible for these stipends if they teach in one of the critical shortage areas.

Third, new teachers in all schools and all content areas are eligible for recruitment incentives and continuing teachers in all schools and all content areas are eligible for the ""Commit: HISD"" retention incentive. Any newly hired teacher who committed to HISD by April 30th was eligible for a $4,000 hiring incentive if they have less than two years of prior teaching experience or a $5,000 hiring incentive if they have at least two years of prior teaching experience. Any teacher hired between May and August will receive a $2,000 hiring incentive. Every current teacher is eligible to receive a $5,000 retention incentive if they commit to teach for the next three years by May 6.

Finally, apart from all these generally applicable incentives, there are two other stipends available to teachers in specific schools. Teachers in the 24 RISE schools are eligible for an incentive between $6,000 and $10,000. Teachers selected for Multi-Classroom Leader roles in any of the 17 schools participating in Opportunity Culture will earn stipends of at least $15,000. For reference, RISE schools are listed at https://www.houstonisd.org/Page/193502 and Opportunity Culture schools are listed at

https://www.houstonisd.org/Page/193398. Secondary DAEP and High School Ahead were not identified as RISE schools because they do not fit the criteria used to identify those schools. They were not identified as Opportunity Culture schools because the Opportunity Culture initiative is being launched with a subset of RISE schools and a group of schools within the ESO1 network; Secondary DAEP and High School Ahead are not in those groups.

Do students return to home campuses for graduation? (Secondary DAEP and High School Ahead)

Students at DAEP return to their home school for graduation. High School Ahead students are 6-8 grade. They do not return to their home campus for graduation, but a similar promotion ceremony is held for these middle school students.

ITEM E-1

Why is this program for Westbury HS only? We should cut it unless absolutely necessary due to budget constraints. Please break down the cost of $42,088.00.

Other schools in the district have this support but it is grant funded. In the case of Westbury, the school has decided to fund this out of school-based funds because the support is perceived to be needed. Based on local district policy on decentralization, the school has site-based decision making to allocate funds for this.

ITEM F-2

Why? TFA. What are other options? Can HISD personnel be utilized?

Yes, we are fully hiring HISD staff to cover all classes. HISD teachers are still be staffed to teach our summer school classes. The TFA pre-service program would provide HISD students with additional academic supports at no cost to the district. This includes enrichment, small group support while teachers provide HB4545 interventions. TFA staff are partnering with our HISD teachers like an internship or a student teaching experience.

What are the designated schools and their rating?

All schools being considered have previously been Achieve 180 schools that have had D/F ratings. The final selection of schools will be based on final numbers of student enrollment and the number of TFA staff.

Bruce ES

Dogan ES

Martinez C (host campus) & Looscan ES

Fleming MS

Gregory Lincoln K-8

Thomas MS
Attucks MS
Cullen MS

ITEM G-1-A

$300,000 is too high! Please explain in detail. What are other options?

HISD's strategic plan includes a focus on building a range of Grow Your Own programs, and this includes support for educators to prepare for administrative roles in HISD. The total cost to HISD per person through this partnership will be $7,800 (the first semester and last semester of a multi-year program, with a cost of $3,900 per semester). Through this investment of $300,000, nearly 40 educators will receive financial assistance as they earn a master's degree in Educational Leadership. The agenda packet provides information on programmatic elements.

ITEM H-1

Which high school campuses over 40 years old have not received renovations from the 2012 bond?
(For example - Jones High school is leasing chillers because theirs is not functioning. The plumbing needs restoring and the pool in not functioning, but money is spent on its upkeep. The a/c is leaking and destroying the floor in the gym.*

The only high school campuses older than 40 years not renovated/rebuilt under the 2012 Bond are the Houston Academy for International Studies (HAIS) and Wheatley High School; however, HAIS received renovations in 2009 and Wheatley HS was rebuilt in 2007. Please see the attached for more information regarding the build/renovation dates of HISD's high school campuses.

Does a principal's salary increase as the number of enrolled students increase?

No, a principal's salary will not be based on student enrollment. The number of students enrolled in a school is not an accurate indicator of an individual principal's job scope or complexity, in and of itself. A principal's salary is based on three factors: (1) the grade configuration of the school, (2) the number/intensity of institutional and social barriers for the school, and (3) the principal's years of prior principal experience. This is shown on Page 24 of the March 3rd budget workshop presentation.

$508.000 is too expensive. Please explain why?   *UPDATED 5/6/2022*

The cost or value of construction was directly derived from a competitive sealed bid proposal (CSP) and yielded the best value for the district in terms of cost and value. This was space was originally built out as a "white box" space for future retail space. CTE by request of the school programmed the use of this space for a pet clinic. The construction of the mechanical systems had to be reworked due to City of Houston code requirements based on the nature of the actual use.

Construction considerations

The cost or value of construction was directly derived from a competitive sealed bid proposal (CSP) and yielded the best value for the district in terms of cost and value.

This was space was originally built out as a "white box" space for future retail space. CTE by request of the school programmed the use of this space for a pet clinic.

The construction of the mechanical systems had to be reworked due to City of Houston code requirements based on the nature of the actual use, resulting in additional cost from the original estimate.

If the board of trustees opts not to approve this project, students will remain less prepared to engage in practicum work at veterinary clinics, the intended retail space will go unused, and the district will not get a return on the $25,000 architecture and engineering fees it has committed to this project thus far. Click here to see the architect's drawings.

Determination of program

As part of the 2012 bond build, space was set aside as a worksite location for the business and culinary arts pathways. Just as Smart Financial occupies space at Lamar, the intent was for a coffee shop to operate out of the space in question to support the learning objectives of the culinary arts program of study. When it was determined that too many hurdles exist for the coffee shop to profitably operate, the prospective coffee shop owner pulled out. This left an 1800 square foot room—that was always intended as a CTE learning space—empty and unfinished. The campus determined that the space would best support the animal science pathway in the form of a pet wellness clinic due to the strong connections the program had already cultivated with industry and the high need for pet care in this population-dense area.

District Access to Lamar's Animal Science (Veterinary Assistant) program

Any student can apply to the program if their zoned campus does not have the same program

Lamar HS sets the criteria for eligibility

Lamar HS has discretion to determine if a specific number of spots available will be reserved for students outside of Lamar.

Program of Study course sequence:

ANIMAL SCIENCE
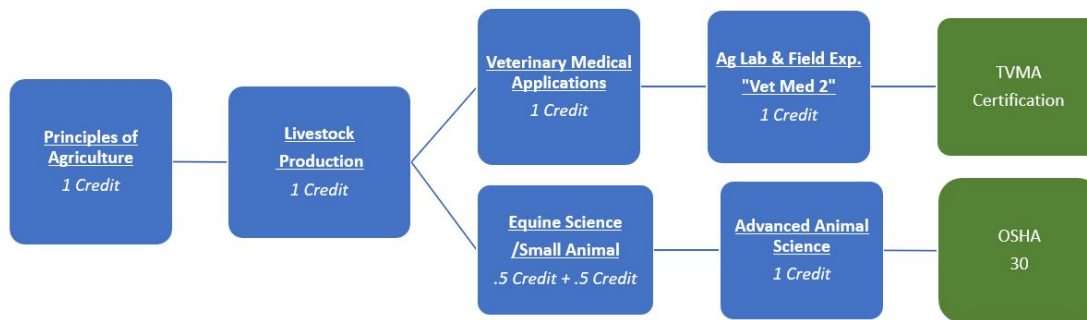
Programs of Study offered at Lamar with enrollment

Arts A/V: 232

Agriculture: 350

Animal Science (new programming will service up to 200)

Business: 1,473

Health Science: 585

Hospitality/Tourism: 350

Human Services: 135

Engineering: 251

Computer Science: 196

Student interest

Building out this program provides students with pre-practicum hands-on experiences needed before students can confidently enter veterinary clinics for their practicum class.

Community support

The proposed pet wellness clinic received favorable support from the campus's PTO, SDMC and Alumni Association.

Work-based learning opportunities

Five partnering veterinary clinics currently staff interns. The school has received letters of support for the facility from the following local veterinary offices:

Bellaire Richmond Pet Hospital- Dr. Huey Beckham

Richmond Avenue Animal Hospital- Dr. Helen Hansen and vet technicians

Noah's Ark Animal Hospital- Dr. Christine Orengo

IBC availability

Certified Veterinary Assistant

OSHA 30

Job growth

Employment opportunities are projected to grow 20% in the Gulf Coast and 30% annually nationwide.

This link provides job listings for entry level pet care positions in Houston from Indeed. This list has been filtered within a 10-mile radius of 77098, Lamar's zip code: https://www.indeed.com/jobs?q=Vet%20Tech&l=Houston%2C%20TX%2077098&radius=10&vjk=30ab133c3cab1a25

Employment opportunities

Medical Specialty Clinics

Rescue Shelters

Exotic Animal Rescue and Rehabilitation Facilities

Teaching colleges

Research laboratories

Non-profit organizations

Military

Government

Grooming clinics within a seven-mile radius of Lamar:
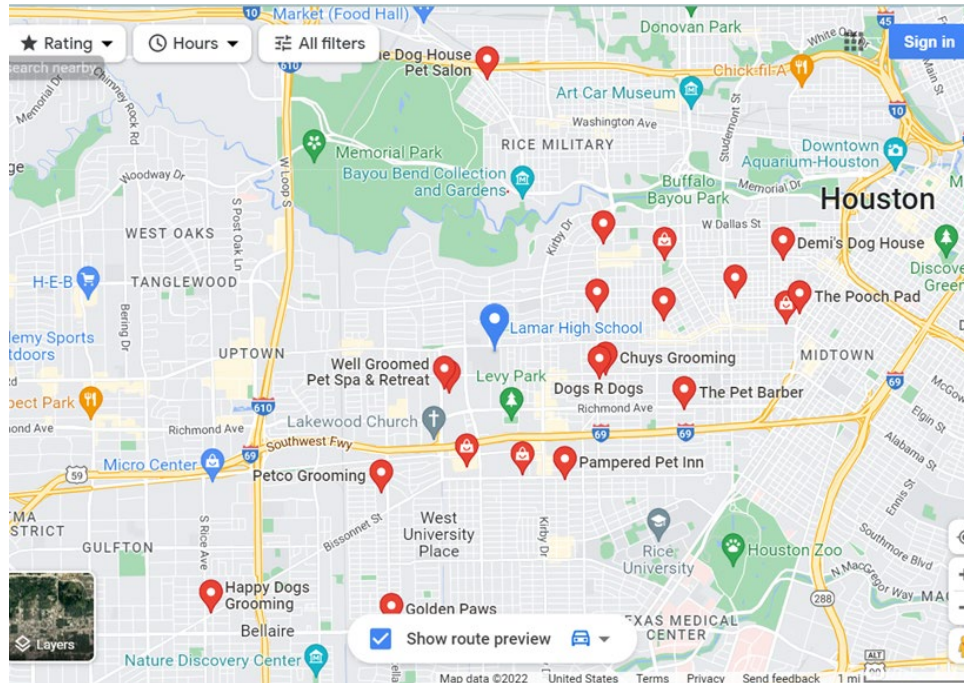
Veterinarian clinics within a seven-mile radius of Lamar:
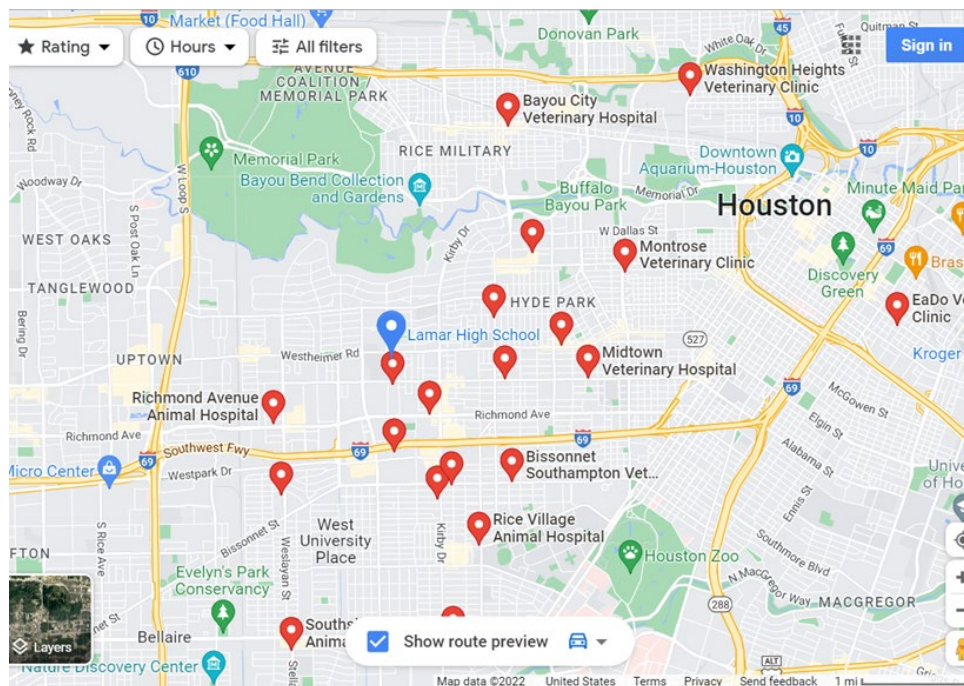
Which campuses have exceeded capacity, yet continue to accept transfer students? (Nearby campuses are losing students because their buildings are deteriorating.)

Below is the list of campuses that currently are over capacity and who take transfers, as requested.

Campus Name	School Type
Almeda ES	Elementary
Askew ES	Elementary
Briargrove ES	Elementary
Condit ES	Elementary
Cornelius ES	Elementary
Crockett ES	Elementary
Daily ES	Elementary
Durham ES	Elementary
Emerson ES	Elementary
Harvard ES	Elementary
Herod ES	Elementary
Hines-Caldwell ES	Elementary
Horn ES	Elementary
Kolter ES	Elementary
Lyons ES	Elementary
McNamara ES	Elementary
Neff ES	Elementary
Oak Forest ES	Elementary
Piney Point ES	Elementary
Poe ES	Elementary
River Oaks ES	Elementary
Rodriguez ES	Elementary
School at St. George ES	Elementary
Sinclair ES	Elementary

Sutton ES	Elementary
Travis ES	Elementary
Twain ES	Elementary
Walnut Bend ES	Elementary
White M ES	Elementary
Hogg MS	Middle
Lanier MS	Middle
Pilgrim Academy	Middle
Bellaire HS	High
Carnegie HS	High
East EC HS	High
Furr HS	High
Heights HS	High
Houston MSTC HS	High
Lamar HS	High
Milby HS	High
North Houston EC HS	High
Sharpstown Intl	High
South EC HS	High
Sterling HS	High
Westside HS	High

The HISD Transfer Procedures were not requested but are included below.

XVIII. HISD TRANSFER PROCEDURES

Any student who wishes to attend a school other than the one to which the student is zoned must apply and enter the lottery if there are more applicants than seats available. **All transfers are for a full school year, require a full-year commitment, and must be reviewed annually**. Accepting a transfer does not negate a Parent/guardian's right to enroll their child at their zoned campus pending space available, even if the child began the school year at a school of choice on a transfer.

The Parent/Guardian may not, however, apply for a second transfer during the same school year. All student transfers are reviewed annually by the principal and certain transfers can be discontinued at the end of the school year if the student fails to follow Attendance Compliance policy, Specific Campus requirements, and/or the Student Code of Conduct. **Beginning with the 2019-2020 school year, students will be approved for only ONE student transfer regardless of transfer type.**

- All transfers are based on space being available.
- Space availability is defined as enrollment being less than 95% of building capacity.
- A school may not accept transfers if the school has any of the following: (a) class-size waivers at the impacted grade level, (b) a Magnet wait list, or (c) a history of capping. Student Transfer applications and student acceptance into an HISD school may only occur within HISD and the Office of School Choice established timelines, which are published on the HISD School Choice website.
- When there are more transfer applications than seats available, a lottery will be conducted. The lottery process will be administered by the Office of School Choice. A lottery is not final until confirmed by the Office of School Choice.

Parents may apply to a combination of 10 School Choice transfers with no more than 5 Magnet applications. For example, a parent/guardian can apply to 4 Magnet and 6 Program Choice transfers or 1 Magnet and 9 Program Choice transfers.

What are the CTE programs offered at each high school?

A list of schools and their CTE programs is attached.

ITEM I-1

What percentage of expenditures (historically) is central office vs. schools for each of these RFPs? (For Project #21-06-05, #21-06-04, #21-06-03, #21-06-02)

Based on Historical 5-year Spend:

Project	Central Office	Schools
21-06-02	78%	22%
21-06-03	18%	82%
21-06-04	59%	41%
21-06-05	93%	7%

May I have a detailed list of all these awards? Why are we using the same 4 vendors as with above items?

This response is pending while awaiting clarification from trustee on the project number referenced.

Please explain cost and vendor list.

This response is pending while awaiting clarification from trustee on the project number referenced.

ITEM I-4-B

pgs. 82-85 How do we compare to last 2 budget cycles? I need a deficit comparison with missing $300 million included.

See report L-1 for the comparison to same period for 2020-2021. There is not any funding missing. The growth in fund balance can be found seen in comparing the district's audited financial statements at https://www.houstonisd.org/Page/31905. The review that is being referenced was simply stating that overall fund balance since 2016 has increased by $300 million. No new money was found. We have shown this increase in Budget Workshop #2 and #5 which can be found at https://www.houstonisd.org/Page/193298.

Pgs. 90-92 Same question as above. (How do we compare to last 2 budget cycles?)

See response above.

ITEM L-1

As of March 31, we have only spent 53% of our budget, but the surplus is half of what the leftover revenue would be. Even accounting for the deficit, there is still money I am not seeing. Please break down the math.

This report reflects actual expenditures. We will still be paying salaries and benefits and making other non-salary purchases through the remainder of the year. We do anticipate teacher vacancies having some impact on student outcomes. Having a high-quality certified teacher is critical to student success. We will also continue to collect property taxes and other revenues through year end. In addition, the recapture payment won't be paid until it is due in August and the TIRZ payment will be made in May and transfers out won't occur until June. Those are three large categories where single expenditures haven't happened yet.

The YTD % of Budget for Instruction and Social Work are much lower for this quarter for FY22 than FY21. Please explain why we have been spending less than budgeted in these areas. How do you anticipate that decline in investment to impact each of the student outcome goals?

The primary driver is vacancies we have seen throughout the year. We do anticipate teacher vacancies

HOUSTON INDEPENDENT SCHOOL DISTRICT

having some impact on student outcomes. Having a high-quality certified teacher is critical to student success. Other than that, under instruction there is a lower expenditure in contracted services which can be partially attributed to funds in ESSER for activities like student tutoring that campuses paid from their regular budgets in the prior year. We don't anticipate a negative impact to the student outcome goals due to the service being provided through other funding sources.

In areas that saw a significant increase in the YTD % of Budget from FY21 to FY22 for this quarter (i.e., Extracurricular, Plant Maintenance and Operations, and Facilities and Construction), are there any areas of concern where the district might exceed the budgeted amount before the end of the year?

We regularly monitor functions that are close and if needed we adjust the budget. We will make a final budget amendment in June 2022 where we do a final review on this specific question to make sure there is sufficient budget by function.

When do we pay out the Contracted Instructional Services Between Public Schools?

Payment is due to TEA by August 15th.

Why do we have a deficit in the Debt Service Fund?

This was a planned use of fund balance as reflected in the budget amendment in February 2022. We will be paying off about $69 million in debt during 2021-2022 using some fund balance. The Debt Service fund does not have any structural deficit.

We appear to be in a better place for the Child Nutrition Fund at this point this year compared to past year. Will the deficit in the Child Nutrition Fund for FY22 be mitigated before end-of-year close-out or will you need to transfer funds from General Fund?

Child Nutrition is asking for an increase to budget under I-4 due to a significant increase in food costs which will create an additional deficit. They have sufficient fund balance for 2021-2022 so we do not anticipate an impact to the general fund. We are still working on the 2022-2023 Nutrition Services budget.

BUDGET WORKSHOP

Is support staff receiving a raise?

What is the compensation table for support staff? Compensation table for all employees?

Will the minimum wage be brought to $15 an hour? (Please see 2019 budget amendment)

What is the dollar amount for averaging ADA and enrollment-based funding that I proposed last week?

Trustees will be given the opportunity to submit questions related to the 2022-2023 budget after the May 5 budget workshop for the next budget workshop Q&A document.

*Attachment included

TEA#	School Type	District	Year Built	Last Renovation	Gross SqFt	School Name
					Campus Information	
1	HS	VIII	1936, 2020	2020	282,635	AUSTIN
2	HS	V	2020	2020	412,950	BELLAIRE
322	HS	VIII	2012	2012	103,502	CARNEGIE VANGUARD
27	HS	III	2000	2007	530,664	CHAVEZ
26	HS	IV	2017	2017	193,834	DEBAKEY
345	HS	VIII	2009	2009	45,524	EAST EARLY COLLEGE
301	HS	VIII	2018, 2018, 2007	2018	69,671	EASTWOOD ACADEMY
468	HS	VIII	2017	2017	114,476	ENERGY INSTITUTE
4	HS	VIII	2017	2017	191,989	FURR
12	HS	I	2006	2006	341,371	HEIGHTS
34	HS	VIII	2018	2018	115,502	HIGH SCHOOL FOR LAW AND JUSTICE
348	HS	IV	1980	2009	51,203	HOUSTON ACADEMY FOR INTERNATIONAL STUDIES (OLD JONES)
25	HS	V	2018	2018	168,000	HSPVA (KINDER)
6	HS	IV	1956, 2006	2012	189,156	JONES HS - FUTURES ACADEMY
33	HS	II	2019	2019	120,500	JORDAN HS for CAREERS
7	HS	II	1969, 2002	2017, 2002	224,431	KASHMERE
8	HS	VII	1962, 2018, 2019	2018, 2019	426,222	LAMAR HS
324	HS	VII	NA	NA		LIBERTY (11th & 12th) *Note physical assessment from T-building campus July '20
10	HS	IX	2019	2019	276,530	MADISON
458	Other	II	2017	2017	135,023	MICKEY LELAND COLLEGE PREP
11	HS	III	2017, 2020	2017, 2020	267,813	MILBY
477	HS	II	2017	2017	205,000	NORTH FOREST
308	HS	I	2016	2016	59,928	NORTH HOUSTON EARLY COLLEGE @ HCC FULTON
3	HS	I	1926, 1978, 1992, 2000, 2003, 2018	2003, 2012, 2018	274,979	NORTHSIDE
310	HS	I	2020	2020	367,118	SAM HOUSTON MSTC
24	HS	I	1966, 2017	2012	238,675	SCARBOROUGH HS
23	HS	VI	2018	2018	215,884	SHARPSTOWN
486	HS	IX	2015	2015	56,719	SOUTH EARLY COLLEGE
14	HS	IV	2017, 2019	2017, 2019	238,617	STERLING
15	HS	I	1959	2019	259,100	WALTRIP
16	HS	II	2018, 2020	2018, 2020	192,321	WASHINGTON
17	HS	IX	1961, 1983, 1995, 2004, 2018, 2020	2012, 2018, 2020	416,515	WESTBURY
36	HS	VI	2000	2010	490,480	WESTSIDE
18	HS	II	1958, 2007		272,749	WHEATLEY HS
9	HS	VII	2017	2017	262,799	WISDOM
19	HS	IX	1958, 1959, 2015, 2018	2015, 2018	239,100	WORTHING
20	HS	IV	2018, 2020	2018, 2020	215,818	YATES
463	Other	IV	1925, 1981, 2017	2012, 2017	160,060	YOUNG WOMEN'S COLLEGE PREPARATORY (old CLC)

Campus	Endorsement	Career Cluster	Program of Study	2022-2023 CTE Course Sequence (credit value)
AUSTIN	Business and Industry	Architecture and Construction	Carpentry	CTE Options on Home Campus
				CTE Options on Home Campus
				Construction Technology I (2)
				Construction Technology II (2)*
		Business, Marketing, and Finance	Business Management	Principles of Business, Finance and Marketing (1)
				Business Information Management I (1)
				Business Information Management II (1)
				Business Management (1)*
		Transportation, Distribution and Logistics	Distribution and Logistics	Principles of Maritime Science (1)^
				Management of Transportation Systems (1)
				Distribution and Logistics (1) *
				Practicum in Distribution and Logistics (2)*
			Maritime Science	Principles of Maritime Science (1)
				Maritime Science I (1)^
				Maritime Science II (1)^
				Practicum in Distribution and Logistics (2)*
	Business and Industry OR STEM	Information Technology	Networking Systems	Principles of Information Technology (1)
				Computer Maintenance (1)
				Networking (1)*
				Practicum in Information Technology (2)*
			Web Development	Principles of Information Technology (1)
				Project Based Research (1)*
				Web Design (1)*
				Web Game Development (1) *OR Practicum in Informatic Technology (2)*
		Manufacturing	Welding	Principles of Manufacturing (1)
				Introduction to Welding (1)
				Welding I (2)
				Welding II (2)*
		STEM	Engineering	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1)*
				Engineering Design and Problem Solving(1)*
				Engineering Design and Presentation II (2)*
	Public Service	Education and Training	Teaching and Training	Principles of Education and Training (1)
				Human Growth and Development (1)
				Instructional Practices (2)*
				Practicum in Education and Training (2)*

BELLAIRE				
	Business and Industry	Arts, Audio/Visual Technology, and Communication	Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II (1)*
				Practicum in Entrepreneurship (2) *^
		Business, Marketing, and Finance	Business Management	Principles of Business, Marketing, and Finance (1)
				Business Law (1)
				Global Business (.5)* AND Human Resources Management (.5)*
				Statistics and Business Decision Making (1)*
			Accounting and Financial Services	Principles of Business, Marketing, and Finance OR Busines Information Management (1)
				Money Matters (1)
				Accounting I (1) OR Financial Mathematics (1)
				Securities and Investments (1)*
			Marketing and Sales	Principles of Business, Marketing, and Finance OR Busines Information Management I (1)
				Virtual Business (0.5) AND Advertising (0.5) * OR Marketing (1)^
				Social Media Marketing (.5)* AND Sports and Entertainme Marketing (.5)
				Statistics and Business Decision Making (1)*
		Hospitality and Tourism	Travel, Tourism, and Attractions	Principles of Hospitality and Tourism (1)
				Sports and Entertainment Marketing (.5) AND Global Business (.5
				Tourism Marketing Concepts and Applications (1)^
				Career Preparation (2)*
		Transportation, Distribution, and Logistics	Distribution and Logistics	Principles of Distribution and Logistics (1)
				Occupational Safety and Environmental Technology (1)^
				Raster Based Geographic Information Systems (1)^
				Distribution and Logistics (1)*
	Business and Industry OR STEM	Agriculture, Food, and Natural Resources	Animal Science	Principles of Agriculture, Food, and Natural Resources (1)
				Small Animal Management (.5) AND Equine Science (.5)
				Livestock Production (1)*
				Advanced Animal Science (1)* OR Veterinary Medical Applicatior (1)*
		STEM	Programming and Software Development (1)	Computer Science I PAP (1)
				AP Computer Science Principles (1)
				AP Computer Science A (2)*
				Computer Science III (1)*
			Programming and Software Development (2)	Fundamentals of Computer Science (1)
				Computer Science I PAP (1)
				Mobile Application Development (1)
				Computer Science II PAP (1)*

School	Endorsement	Cluster	Program of Study	Courses
CHAVEZ	**Business and Industry**	**Arts, Audio/Visual Technology, and Communication**	**Environmental and Natural Resources** (Agriculture, Food and Natural Resources)	Principles of Agriculture, Food and Natural Resources (1)
				Wildlife, Fisheries, and Ecology Management (1)
				Forestry and Woodland Ecosystems (1)
				Range Ecology and Management (1)*
			Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)
				Graphic Design and Illustration I w/Lab (2)
				Graphic Design and Illustration II (1)*
				Practicum in Graphic Design and Illustration (2)*
			Digital Communications	Principles of Arts, A/V Technology and Communications (1)
				A/V Production I (1)
				A/V Production II (1)*
				Practicum in A/V Production (2)* OR Digital Audio Technology I (1)*
	Business and Industry OR STEM	**Agriculture, Food and Natural Resources**	**Animal Science**	Principles of Agriculture, Food and Natural Resources (1)
				Livestock Production (1)*
				Veterinary Medical Applications (1)*
				Advanced Animal Science (1)*
			Plant Science	Principles of Agriculture, Food and Natural Resources (1)
				Greenhouse Operations (1)
				Floral Design (1)*
				Advanced Plant and Soil Science (1) *
		STEM	**Engineering**	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1)
				Digital Electronics (1)*
				Engineering Design and Problem Solving (1)*
			Renewable Energy	Principles of Applied Engineering (1)
				AC/DC Electronics (1)
				Solid State Electronics (1)*
				Digital Electronics (1)*
	Public Service	**Law and Public Service**	**Emergency Services (1)**	Principles of Law, Public Safety, Corrections, and Security (1)
				Disaster Response (1)^
				Emergency Medical Technician - Basic (2)*^
				Project Based Research (1)*
			Emergency Services (2)	Principles of Law, Public Safety, Corrections, and Security (1)
				Disaster Response (1)^
				Firefighter I (2)*
				Firefighter II (3)*
	Public Service OR STEM	**Health Science**	**Healthcare Diagnostics**	Principles of Health Science (1)
				Medical Microbiology (1)*
				Medical Terminology (1)
				Pathophysiology (2)* OI Practicum in Health Science (2)'
DEBAKEY	**Public Service**	**Health Science**	**Healthcare Diagnostics**	Principles of Health Science (1)
				Health Science Theory (1) *
				Practicum in Health Science (First Time Taken) (2) *
				Practicum in Health Science (Second Time Taken) (2) *
EAST EARLY	**Business and Industry OR STEM**	**STEM**	**Renewable Energy**	Principles of Applied Engineering (1)
				AC/DC Electronics (1)
				Scientific Research and Design (1)*
				Project Based Research (1)*

EASTWOOD	Business and Industry OR STEM	STEM	Cybersecurity	AP Computer Science Principles (1)
				Internetworking Technologies (1)^
				Digital Forensics (1)*
				Cybersecurity Captsone (1)*
			Engineering	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1)*
				Engineering Design and Problem Solving (1)*
				Scientific Research and Design (1)*
ENGERGIZED FOR STEM	Business and Industry OR STEM	STEM	Renewable Energy	Foundations of Energy (1)
				Introduction to Renewable Energy (1)
				Environmental Sustainability (1) (PLTW)*
				Practicum in Science, Technology, Engineering and Mathematics (2)*
ENERGY INSTITUTE	Business and Industry OR STEM	Manufacturing	Advanced Manufacturing and Machinery Mechanics	Principles of Manufacturing (1)
				Robotics I (1) OR Manfacturing Engineering Technology I (1)
				Robotics II (1)* OR Manufacturing Engineering Technology II (1)*
				Practicum in Manufacturing (2)*
		STEM	Engineering	Introduction to Engineering Design (1)
				Engineering Science (1)*
				Environmental Sustainability (1) (PLTW)*
				Engineering Design and Problem Solving (1)* OR Practicum in STE (2)*
FURR (Jordan Career Center)	Business and Industry	Agriculture, Food, and Natural Resources	Environmental and Natural Resources	Principles of Agriculture, Food and Natural Resources (1)
				Wildlife, Fisheries, and Ecology Management (1)
				Forestry and Woodland Ecosystems (1)
				Scientific Research and Design (1)*
		Arts, Audio/Visual Technology and Communications	Digital Communications	Principles of Arts, A/V Tech. and Communications (1)
				Audio/Video Production I (1)
				Digital Audio Technology I (1)
				Audio/Video Production II (1)* OR Digital Audio Technology II (1)*
	Public Service OR STEM	Health Science	Healthcare Therapeutics	Principles of Health Science (1)
				Medical Terminology (1)
				Health Science Theory (1)*
				Pathophysiology (1)*

HAIS	**Business and Industry**	**Business, Marketing, and Finance**	**Entrepreneurship**	Business Information Management I (1)
				Mobile Application Development (1)
				Project Based Research (1)*
				Career Preparation (2)* OR Practicum in Entrepreneurship (2)*^
		Arts, Audio/Visual Technology and Communications	**Design and Multimedia Arts**	Graphic Design and Illustration I (1)
				Video Game Programming (1)^
				Advanced Video Game Programming (1)*^
				Career Preparation (2)* OR Practicum in Entrepreneurship (2)*
	Business and Industry OR STEM	**STEM**	**Programming and Software Development**	Computer Science I (1)
				AP Computer Science Principles (1)
				Mobile Application Development (1)
				Career Preparation (2)* OR Practicum in Entrepreneurship (2)*^
			Engineering	Principles of Applied Engineering (1)
				Engineering Science (1)*
				Engineering Design and Problem Solving (1)*
				Scientific Research and Design (1)*
	Public Service	**Law and Public Service**	**Government and Public Administration**	Principles of Government and Public Administration (1)
				Political Science I (1)
				Political Science II (1)*
				Planning and Governance (1)* OR
				Practicum in Local, State and Federal Government (2)
HEIGHTS **(Jordan Career Center)**	**Business and Industry**	**Arts, Audio/Visual Technology and Communications**	**Design and Multimedia Arts**	Digital Design and Media Production (1)
				Digital Media (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II (1)*
			Digital Communications	Principles of Arts, A/V Technologies and Communications (1)
				Audio/Video Production I (1)
				Audio/Video Production II w/Lab (2) *
				Digital Audio Technology I (1)
		Business, Marketing, and Finance	**Accounting and Financial Services**	Principles of Business and Marketing Finance (1)
				Accounting I (1)
				Accounting 2 (1) *
				Financial Mathematics (1) *
			Business Management	Principles of Business and Marketing Finance (1)
				Business Information Management I (1)
				Business Information Management II (1)
				Business Management (1)*
		Transportation, Distribution, and Logistics	**Automotive**	Energy and Power of Transportation Systems (1) *
				Automotive Basics (1)
				Automotive Technology I (2) *
				Automotive Technology II (2)* OR
				Practicum in Transportation Systems (2
	Business and Industry OR STEM	**Information Technology**	**Web Development**	Web Game Development (1) *
				Web Design (1) *
				Independent Study In Technology Applications (1) *
				Project Based Research (1) *
		Manufacturing	**Advanced Manufacturing and Machinery Mechanics**	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1) *
				Robotics I (1)
				Robotics II (1) *
	Public Service OR STEM	**Health Science**	**Healthcare Diagnostics**	Principles of Health Science (1)
				Health Science Theory (1) *
				Anatomy and Physiology (1) *
				Practicum in Health Science (2) *

HSLJ	Business and Industry OR STEM	STEM	Cybersecurity	Foundations of Cybersecurity (1)
				Internetworking Technologies (1)^
				TBD
				TBD
	Public Service	Law and Public Service	Government and Public Administration	Principles of Government and Public Administration (1)
				Political Science I (1)
				Political Science II (1) *
				Revenue, Tax, and Regulation (1) *
			Emergency Services	Principles of Law, Public Safety, Corrections and Security (1)
				Law Enforcement I (1)
				National Security (1) *
				Practicum in Law, Public Safety, Corrections, and Security (2) *
			Law Enforcement	Principles of Law, Public Safety, Corrections and Security (1)
				Law Enforcement I (1)
				Law Enforcement II (1) *
				Forensic Science (1)
			Legal Studies	Principles of Law, Public Safety, Corrections and Security (1)
				Political Science I (1)
				Political Science II (1) *
				Court Systems and Practices (1)
HSPVA	Business and Industry	Arts, Audio/Visual Technology and Communications	Digital Communications	Principles of Arts A/V Technology and Communication (1)
				Digital Communications in the 21st Century (1)
				Audio/Video Production I (1)
				Audio/Video Production II (1) *

HOUSTON MSTC **(Jordan Career Center)**	**Business and Industry**	Architecture and Construction	Plumbing and Pipefitting	Principles of Construction (1)
				Plumbing Technology I (1)
				Plumbing Technology II (2) *
				Practicum in Construction Technology (2) *
		Business, Marketing, and Finance	Business Management	Business Information Management I (1)
				Business Information Management II w/Lab (2)
				Business Management *(1) AND Human Resources Management (0.5) AND Global Business * (0.5
				Practicum in Business Management (2) *
		Arts, A/V, Technology and Communicatations	Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II w/Lab (2) *
				Practicum in Entrepreneurship (2) *^
			Digital Communications	Principles of Arts, A/V Technology, and Communications (1)
				Audio/Video Production I (1)
				Audio/Video Production II w/Lab (2) *
				Practicum in Entrepreneurship (2) *^
		Transportation, Distribution and Logistics	Automotive	Principles of Transportation Systems (1)
				Automotive Basics (1)
				Automotive Technology I (2) *
				Automotive Technology II (2)*
	Business and Industry OR STEM	Information Technology	Networking Systems	Principles of Information Technology (1)
				Computer Maintenance w/ Lab (2)
				Networking w/ Lab (2) *
				Computer Technician Practicum (2) *
		Manufacturing	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1)
				Robotics I (1)
				Robotics II (2) *
				Practicum in Manufacturing (2) *
		STEM	Programming and Software Development	Fundamentals of Computer Science (1)
				Computer Science I (1)
				Computer Sciece II (1) *
				Computer Science III (1) *
	Public Service	Health Science	Healthcare Diagnostics	Principles of Health Science (1)
				Medical Terminology (1)
				Health Science Theory * (1) AND Anatomy and Physiology * (1)
				Practicum in Health Science (2) *
		Human Services	Cosmetology	Introduction to Cosmetology (1)
				Cosmetology I (2) *
				Nail Care, Enhancements and Spa Services (2)^
				Cosmetology II (2) *
JONES	**Business and Industry OR STEM**	Architecture and Construction	Architectural Design	Principles of Architecture (1)
				Architectural DesignI (1)
				Architectural Design II (2)*
				Practicum in Architectural Design (2)*
			HVAC and Sheet Metal (PTECH 22/23)	Principles of Construction (1)
				Heating, Ventilation, and Air Conditioning and Refr. Tech (1)
				Heating, Ventilation, and Air Conditioning and Refr. Tech (2)
				Practicum in Construction Technology (2)*
	Public Service OR STEM	Health Science	Healthcare Diagnostics	Principles of Health Science (1)
				Health Science Theory (1)*
				Anatomy and Physiology (1)*
				Practicum in Health Science (2) * OF
				Medical Microbiology (1) *

Barbara Jordan Career Center	**Business and Industry**	**Architecture and Construction**	**Construction Management and Inspection**	CTE Options on Home Campus
				CTE Options on Home Campus
				Construction Management I (2)
				Construction Management II (2)*
		Business, Marketing, and Finance	**Marketing and Sales**	CTE Options on Home Campus
				CTE Options on Home Campus
				Retail Management (1) * ANI Entrepreneurship (1
				Advanced Marketing (2)*
		Hospitality and Tourism	**Culinary Arts**	CTE Options on Home Campus
				CTE Options on Home Campus
				Culinary Arts (2)
				Advanced Culinary Arts (2)*
		Transportation, Distribution and Logistics	**Automotive**	CTE Options on Home Campus
				CTE Options on Home Campus
				Automotive Technology I (2) DCH *
				Automotive Technology II (2)* DCH
	Business and Industry OR STEM	**Architecture and Construction**	**Architectural Design**	CTE Options on Home Campus
				CTE Options on Home Campus
				Principles of Architectural Design (1) AND Architectural Design I (1
				Architectural Design II (2) *
			Electrical	CTE Options on Home Campus
				CTE Options on Home Campus
				Principles of Construction (1) AND Electrical Technology I (1)
				Electrical Technology II (2) *
		Energy	**Refining & Chemical Processes**	CTE Options on Home Campus
				CTE Options on Home Campus
				Principles of Applied Engineering (1) AND Applied Mathematics Technical Professionals (1)
				Introduction to Process Tecnnology (1) AND Petrochemical Safety Health, and Environment (1)
		Manufacturing	**Welding**	CTE Options on Home Campus
				CTE Options on Home Campus
				Welding I (2) DCH
				Welding II (2)* DCH
	Public Service	**Education and Training**	**Teaching and Training**	CTE Options on Home Campus
				CTE Options on Home Campus
				Principles of Education and Training (1) AND Child Development (1)
				Instructional Practices (2) *
		Human Services	**Cosmetology**	CTE Options on Home Campus
				CTE Options on Home Campus
				Cosmetology I (2) * ANI Nail Care, Enhancements and Spa Services (1)
				Cosmetology II (2)* AND Principles of Cosmetology Design and Co Theory (1)
		Law and Public Service	**Government and Public Administration**	CTE Options on Home Campus
				CTE Options on Home Campus
				Political Science I (1) AND Planning and Governance (1) *
				Political Science II (1) * AND Public Management and Administration (1) *
	Public Service OR STEM	**Health Science**	**Healthcare Diagnostics**	CTE Options on Home Campus
				CTE Options on Home Campus
				Principles of Health Science (1) AND Health Science Theory (1)*
				Practicum in Health Science (2)*

KASHMERE	**Business and Industry**	**Arts, Audio/Visual Technology and Communications**	**Design and Multimedia Arts**	Principles of Arts, A/V Technology and Communications (1)
				Graphic Design and Illustration (1)
				Animation I (1)
				Animation II (1)*
			Design and Multimedia Arts (Futures)	Principles of Arts, A/V Technology and Communications (1)
				Graphic Design and Illustration (1)
				Animation I (1)
				Practicum in Graphic Design and Illustration DCH (2)*
		Business, Marketing, and Finance	**Entrepreneurship**	Business Information Management I (1)
				Entrepreneurship (1)
				Entrepreneurship II (1)^
				Practicum In Entrepreneurship (2)*^

LAMAR	**Business and Industry**	**Arts, Audio/Visual Technology, and Communication**	**Design and Multimedia Arts**	Principles of Arts, A/V Technology, and Communications (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II (1)*
				Commercial Photography I (1)
			Digital Communications	Principles of Arts, A/V Technology, and Communications (1)
				Audio/Video Production I (1)
				Audio/Video Production II (1)*
				Digital Audio Technology I (1)
		Business, Marketing, and Finance	**Accounting and Financial Services**	Principles of Business, Marketing and Finance (1)
				Money Matters (1)
				Accounting I (1)
				Accounting II (2)*
			Business Management	Principles of Business, Marketing and Finance (1)
				Business Information Management I (1)
				Business Management (1)*
				Practicum of Business Management (2)* C
				Global Business (0.5) * AND Human Resources Management (0.5
		Hospitality and Tourism	**Culinary Arts**	Principles of Hospitality and Tourism (1)
				Introduction to Culinary Arts (1)
				Culinary Arts (2)
				Food Science (1) * OR Practicum in Culinary Arts (2)*
			Lodging and Resort Management	Principles of Hospitality and Tourism (1)
				Hotel Management (1)
				Travel and Tourism (1)
				Hospitality Services (2)*
	Business and Industry OR STEM	**Agriculture, Food and Natural Resources**	**Animal Science**	Principles of Agriculture, Food and Natural Resources (1)
				Livestock Production (1) *
				Veterinary Medical Applications (1)* C
				Equine Science (0.5) AND Small Animal Management (0.5
				Advanced Animal Science (1)* OR Practicum in Agriculture, Food, and Natural Resources (2)
			Plant Science	Principles of Agriculture, Food and Natural Resources (1)
				Floral Design (1) *
				Landscape Design and Management (0.5) AND Turf Grass Management (0.5
				Horticultural Science (1) OR Practicum in Agriculture, Food, and Natural Resources (2)
		STEM	**Engineering**	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1) *
				Engineering Science (1) *
				Engineering Design and Presentation II (2)* OR Practicum in STEM (2) *
			Programming and Software Development	AP Computer Science Principles (1)
				Computer Science I PREIB (1)
				IB Computer Science Standard Level, Year 1 (1) *
				IB Computer Science Standard Level, Year 1 (1) *
	Public Service	**Health Science**	**Exercise Science and Wellness**	Principles of Exercise Science and Wellness (1)^
				Kinesiology I (1)^
				Kinesiology II (1)^
				Practicum in Entrepreneurship (2) *^
		Human Services	**Family and Community Services**	Principles of Human Services (1)
				Human Growth and Development (1)
				Child Development (1)
				Family and Community Services (1) * OR Practicum in Human Services (2)*

School	Endorsement	Cluster	Program of Study	Courses
LIBERTY	**Business and Industry**	**Business, Marketing, and Finance**	**Business Management**	**Principles of Business, Marketing, and Finance (1)**
				Virtual Business (0.5) AND Global Business (0.5) *
				Business Management (1)*
				Practicum in Business, Marketing, and Finance (2)*
LONG ACADEMY	**STEM OR Public Service**	**STEM**	**Biomedical Science**	**Principles of Biosciences (1)**
				Biotechnology I (1)
				Pathophysiology (1) *
				NONE
MADISON	**Business and Industry**	**Information Technology**	**Networking Systems**	**Principles of Information Technology (1)**
				Internetworking Technologies I (1)^
				Internetworking Technologies II (1) *^
				Career Preparation I (2)*
		Transportation, Distribution and Logistics	**Automotive**	**Principles of Transportation Systems (1)**
				Energy and Power of Transportation Systems (1) *
				Automotive Technology I: Maintenance and Light Repair (2) *
				Automotive Technology II: Automotive Service (2)*
	Business and Industry OR STEM	**Agriculture, Food and Natural Resources**	**Animal Science**	**Principles of Agriculture, Food and Natural Resources (1)**
				Livestock Production (1) *
				Veterinary Medical Applications (1)*
				Advanced Animal Science (1)*
		Manufacturing	**Advanced Manufacturing and Machinery Mechanics**	**Principles of Applied Engineering (1)**
				Robotics I (1)
				Engineering Design and Presentation I (1) *
				Robotics II (1) *
			Welding	**Introduction to Welding (1)**
				Welding I (2)
				Welding II (2)*
				Practicum in Manufacturing (2)*
		STEM	**Engineering**	**Principles of Applied Engineering (1)**
				Engineering Design and Presentation I (1) *
				Engineering Design and Presentation II (2)*
				Engineering Design and Problem Solving (1)*
	Public Service	**Health Science**	**Healthcare Diagnostics**	**Principles of Health Science (1)**
				Health Science Theory (1)*
				Anatomy and Physiology (1)*
				Practicum in Health Science (2)*
		Human Services	**Cosmetology**	**Introduction to Cosmetology (1)**
				Principles of Cosmetology Design and Color (1)
				Cosmetology I (2) *
				Cosmetology II (2)*
MICKEY LELAND CPA	**Business and Industry**	**Arts, Audio/Visual Technology and Communications**	**Design and Multimedia Arts**	**Digital Media (1)**
				Digital Design and Media Production (1)
				Career Preparation I (2) *
				NONE
	Business and Industry OR STEM	**STEM**	**Programming and Software Development**	**Fundamentals of Computer Science (1)**
				AP Computer Science Principles (1)
				AP Computer Science A (1)*
				Career Preparation I (2) *

School	Pathway Category	Cluster	Program	Courses
MIDDLE COLLEGE HS at HCC GULFTON	Business and Industry OR STEM	STEM	Programming and Software Development	Fundamentals of Computer Science (1)
				Computer Science I (1)
				Computer Science II (1) *
				Mobile Application Development (1) *
MIDDLE COLLEGE HS at HCC FRAGA	Business and Industry	Business, Marketing, and Finance	Marketing and Sales	Principles of Business, Marketing, and Finance (1)
				Virtual Business (0.5) AND Advertising (0.5) *
				Retail Management (1)*^ AND Marketing (1)
				Career Preparation I (2) *
MILBY	Business and Industry	Architecture and Construction	Carpentry	CTE Options on Home Campus
				CTE Options on Home Campus
				Construction Technology I (2)
				Construction Technology II (2)*
			HVAC and Sheet Metal	Principles of Construction (1)
				HVAC and Refrigeration Technology I (1)
				HVAC and Refrigeration Technology II (2)*
		Hospitality and Tourism	Culinary Arts	Principles of Hospitality and Tourism (1)
				Introduction to Culinary Arts (1)
				Culinary Arts (2)
				Practicum in Culinary Arts (2)*
	Business and Industry OR STEM	Manufacturing	Welding	Introduction to Welding (1)
				Welding I (2)
				Welding II (2) *
				NONE
		STEM	Cybersecurity	Foundations of Cybersecurity (1)
				Computer Science I (1)
				Practicum in Information Technology (2)*
			Engineering	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1) *
				Engineering Design and Presentation II (2)*
				Practicum in Science, Technology, Engineering, and
			Programming and Software Development	Fundamentals of Computer Science (1)
				AP Computer Science Principles (1)
				Mobile Application Development (1) *
				Practicum in Information Technology (2)*
	Public Service	Health Science	Healthcare Diagnostics	Principles of Health Science (1)
				Medical Terminology (1)
				Health Science Theory with Clinical (2)*
				Practicum in Health Science (2)*
		Human Services	Cosmetology	Introduction to Cosmetology (1)
				Principles of Cosmetology Design and Color Theory (1)
				Cosmetology I (2) *
				Cosmetology II (2)*
MOUNT CARMEL ACADEMY			*NO PROGRAM OFFERED 2021-2022*	NONE
				NONE
				NONE
				NONE

NORTH HOUSTON ECHS	Business and Industry	Business, Marketing, and Finance	Entrepreneurship	Principles of Business, Marketing and Finance (1)
				Entrepreneurship (1)
				Entrepreneurship II (1)^
				Project Based Research (1) * OR Practicum in Entrepreneurship (2) *
	Public Service	Law and Public Service	Government and Public Administration	Principles of Government and Public Administration (1)
				Political Science I (1)
				Dimensions of Diplomacy (1) *^
				TBD
NORTH FOREST	Business and Industry	Architecture and Construction	HVAC and Sheet Metal (2022-2023)	Principles of Construction (1)
				HVAC and Refrigeration Technology I (1)
				HVAC and RefrigerationTechnology II (2) *
				Practicum in Construction Technology (2) *
		Information Technology	Networking Systems	Principles of Information Technology (1)
				Internetworking Technologies I (1)
				Internetworking Technologies II (1) *
				Career Preparation I (2) *
		Transportation, Distribution and Logistics	Automotive	Principles of Transportations Systems (1)
				Energy, Power and Transportation Systems (1)
				Automotive Basics (1)
				Career Preparation I (2) *
	Business and Industry OR STEM	Agriculture, Food and Natural Resources	Animal Science	Principles of Agriculture, Food and Natural Resources (1)
				Livestock Production (1) *
				Veterinary Medical Applications (1)*
				Practicum in Agriculture, Food and Natural Resources (2)*
	Public Service	Law and Public Service	Emergency Services	Principles of Law, Public Safety, Corrections and Security (1)
				Disaster Response (1)^
				Firefighter I (2)*
				Anatomy and Physiology (1) *
NORTHSIDE	Business and Industry	Arts, Audio/Visual Technology and Communication	Digital Communications	Principles of Arts, A/V Technology And Communications (1)
				Audio/ Video Production I (1)
				Audio/ Video Production II (1)*
				Practicum in Audio/ Video Production (2)*
		Hospitality and Tourism	Culinary Arts	Principles of Hospitality and Tourism (1)
				Introduction to Culinary Arts (1)
				Culinary Arts (2)
				Practicum in Culinary Arts (2)*
			Lodging and Resort Management	Principles of Hospitality and Tourism (1)
				Hotel Management (1)
				Hospitality Services (2)*
				Practicum in Hospitality Services (2)*
	Business and Industry OR STEM	Information Technology	Web Development	Principles of Information Technology (1)
				Web Design (1) *
				Web Game Development (1) *
				Practicum in Information Technology (2)*
		STEM	Cybersecurity	Principles of Information Technology (1)
				Internetworking Technologies (1)^
				Networking (1) *
				Practicum in Information Technology (2)*

SCARBOROUGH	**Business and Industry**	**Architecture and Construction**	**HVAC and Sheet Metal**	Principles of Construction (1)
				HVAC and Refrigeration Technology I (1)
				HVAC and Refrigeration Technology II (2) *
				Practicum in Construction Technology (2) *
		Business, Marketing, and Finance	**Business Management**	Principles of Business, Marketing and Finance (1)
				Business Information Management I (1)
				Business Management (1)*
				Practicum in Business Management (2)*
	Public Service	**Education and Training**	**Teaching and Training**	Principles of Education and Training (1)
				Human Growth and Development (1)
				Instructional Practices (2)*
				Practicum in Education and Training (2)*
SHARPSTOWN	**Business and Industry**	**Agriculture, Food, and Natural Resources**	**Plant Science**	Principles of Agriculture, Food, and Natural Resources (1)
				Horticultural Science (1) *
				Floral Design I (1) *
				Advanced Floral Design (1)*^ OR Advanced Plant and Soil Science (1) *
		Arts, A/V Technology, and Communication	**Design and Multimedia Arts**	Digital Media (1) OR Video Game Design (1)
				Animation I (1)
				Animation II (1) *
				Practicum in Audio/Video Production (2)*
			Digital Communications	Principles of Arts, A/V Technology and Communications (1)
				Audio/Video Production I (1)
				Audio/Video Production II (1)*
				Practicum in Audio/Video Production (2)* OR Practicum Entrepreneurship (2) *
	Public Service OR STEM	**Health Science**	**Healthcare Diagnostics**	Principles of Health Science (1)
				Medical Terminology (1)
				Health Science Theory (1)*
				Anatomy and Physiology (1)*
SHARPSTOWN INTERNATIONAL	**Business and Industry**	**Arts, AV Technology and Communications**	**Design and Multimedia Arts**	Principles of Arts, AV Technology and Communications (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II (1)*
				Practicum in Graphic Design and Illustration (2)*
	Business and Industry OR STEM	**Manufacturing**	**Advanced Manufacturing and Machinery Mechanics**	Principles of Applied Engineering (1)
				Robotics I (1)
				Robotics II (1)*
				Career Preparation I (2)*
		STEM	**Programming and Software Development**	Computer Science I (1)
				AP Computer Science Principles (1)
				Computer Science II (1) *
				Career Preparation I (2)*
	Public Service	**Law and Public Service**	**Government and Public Administration**	Principles of Government and Public Administration (1)
				Planning and Governance (1) *
				Dimensions of Diplomacy (1)*^
				Practicum in Local, State and Federal Government (2)*

SOUTH EARLY COLLEGE HS	**Business and Industry OR STEM**	**STEM**	Engineering	Engineering Essentials (1) (PLTW)^
				Introduction to Engineering Design (PLTW) (1) ^
				Engineering Science (1) *
				Civil Engineering and Architecture (PLTW) (1)*^
			Cybersecurity	Foundations of Cybersecurity (1)
				Internetworking Technologies I (1)^
				Internetworking Technologies II (1) *^
				Cybersecurity Capstone (1) *
STERLING	**Business and Industry**	**Business, Marketing, and Fiance**	Business Management	Business Information Management I (1)
				Business Information Management II (1)
				Business Management (1) *
				Practicum inBusiness Management (2)* OR Career Prep I (2) *
		Manufacturing	Welding	Introduction to Welding (1)
				Welding I (2)
				Welding II (2) *
				Practicum inManufacturing (2) *
		Transportation, Logistics and Distribution	Automotive	Principles of Transportation Systems (1)
				Automotive Technology I: Maintenance and Light Repair (2) *
				Automotive Technology II: Automotive Services(2)*
			Aviation Maintenance	Introduction to Aircraft Technology (1)
				Energy and Power of Transportation Systems (1)
				Aircraft Airframe Technology (2)*
				Aircraft Powerplant Technolog (2)* OR Practicum in Transportation Systems (2)
	Public Service	**Law and Public Service**	Law Enforcement	Principles ofLaw, Public Safety, Corrections and Security (1)
				Law Enforcement I (1)
				Law Enforcement II (1)*
				Practicum in Law, Public Safety, Corrections and Security (2)*

WALTRIP	**Business and Industry**	**Arts, AV Technology and Communications**	**Design and Multimedia Arts**	Digital Media (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II (1) *
				Digital Art and Animation (1) *
			Digital Communications	Principles of Arts, AV Technology and Communications (1)
				Audio/Video Production I (1)
				Audio/Video Production II (1) *
				Practicum in Audio/Video Production (2)*
		Business, Marketing, and Fianance	**Business Management**	Principles of Business, Marketing, and Finance (1)
				Business Information Management I (1)
				Business Information Management II (1)
				Practicum in Business Management (2)* OR Career Preparation I (2)*
		Transportation, Distribution and Logistics	**Automotive**	Principles of Transportation Systems (1)
				Energy and Power of Transportation Systems (1) *
				Automotive Technology I: Maintenance and Light Repair (2)
	Business and Industry OR STEM	**Information Technology**	**Information Technology Support and Services**	Principles of Information Technology (1)
				Geographic Information Systems (1)^ *
				Raster Based Geographic Information Systems (1)^
				Practicum in Information Technology (2)*
		STEM	**Engineering**	Principles of Applied Engineering (1)
				Manufacturing Engineering Technology (1)
				Engineering Design and Presentation I (1) *
				Practicum in Science, Technology, Engineering and Mathematics (2)*
	Public Service OR STEM	**Health Science**	**Healthcare Therapeutics**	Principles of Health Science (1)
				Medical Terminology (1)
				Health Science Theory (1)*
				Pharmacology (1) *
WASHINGTON	**Business and Industry**	**Agriculture, Food and Natural Resources**	**Animal Science**	Principles of Agriculture, Food and Natural Resources (1)
				Livestock Production(1) *
				Veterinary Medical Applications (1)*
				Advanced Animal Science (1)*
		Architecture and Construction	**Carpentry**	Principles of Construction(1)
				Construction Technology (2)
				Construction Technology I(2)*
				Practicum in Construction Technology (2)*
	Business and Industry OR STEM	**Information Technology**	**Networking Systems**	Principles of Information Technology(1)
				Computer Maintenance(1)
				Networking(1)
				Advanced Cloud Computing (1) *^
		STEM	**Engineering**	Principles of Applied Engineering(1)
				Engineering Design and Presentation I (1)
				Engineering Design and Problem Solving (1)*
				Practicum in STEM(2)*

WESTBURY	Business and Industry	Business, Marketing, and Finance	Business Management	Principles of Business Marketing and Finance (1)
				Business Information Management I (1)
				Business Information Management II (1)
				Practicum in Business Management (2)* OR Business Management *
		Information Technology	Web Development	Principles of Information Technology (1)
				Web Design (1) *
				Web Game Development (1) *
				Project Based Research (1) *
		Transportation, Distribution and Logistics	Automotive	Principles of Transportation Systems (1)
				Automotive Basics (1)
				Automotive Technology I: Maintenance and Light Repair (2) *
				Automotive Technology II: Automotive Service (2)* OR Practicum i Transportation Systems (2)
	Business and Industry OR STEM	STEM	Engineering	Principles of Applied Engineering (1)
				Introduction to Engineering and Design PLTW (1)^
				Computer Integrated Manufacturing PLTW (1)^ *
				Engineering Design and Problem Solving (1)*
	Public Service	Law and Public Service	Emergency Services	Principles of Law, Public Safety, Corrections, and Security (1)
				Disaster Response (1)^
				Firefighter I (2)*
				Emergency Medical Technician - Basic (2)^ *
	Public Service OR STEM	Health Science	Healthcare Diagnostics	Principles of Health Science (1)
				Health Science Theory (1)*
				Anatomy and Physiology (1) *
				Practicum in Health Science (2)* OR Pathophysiology (1)

WESTSIDE	Business and industry	Agriculture, Food, and Natural Resources	Environmental and Natural Resources	Principles of Agriculture, Food, and Natural Resources (1)
				Range Ecology and Management w/Lab (2) *
				Project Based Research (1) *
				Scientific Research and Design (1) *
		Arts, A/V Technology and Communications	Design and Multimedia Arts (1)	Principles of Arts A/V Tech and Communications (1)
				Animation I (1)
				Animation II w/Lab(2) *
				Practicum in Animation (2) *
			Design and Multimedia Arts (2)	Principles of Arts A/V Tech and Communications (1)
				Graphic Design and Illustration I (1)
				Graphic Design and Illustration II w/Lab (2)
				Practicum in Graphic Design and Illustration (2) *
			Digital Communications	Principles of Arts A/V Tech and Communications (1)
				Audio/Video Production I (1)
				Audio/Video Production II (1) *
				Practicum in Audio/Video Production (2) *
		Business, Marketing, and Finance	Accounting and Financial Services	Principles of Business Marketing and Finance (1)
				Financial Mathematics (1)* O
				Business Information Management (
				Accounting I (1)
				Accounting II (1)*
			Business Management	Principles of Business, Marketing and Finance (1)
				Business Information Management (1)
				Business Law (1) O
				Global Business (0.5) * AND Virtual Business (0
				Practicum in Business Management (2)* OR
				Business Management (1)
		Hospitality and Tourism	Culinary Arts	Introduction to Culinary Arts (1)
				Culinary Arts (2)
				Advanced Culinary Arts (2)*
				Practicum in Culinary Arts (2)*
	Business and Industry OR STEM	STEM	Programming and Software Development	Fundamentals of Computer Science (1)
				ComputerScience I (1)
				Computer Science II (1)* OR AP Computer Science Principles (1)
				Practicum in Information Technolog (2)* OR
				AP Computer Science A (2)
			Engineering (PLTW)	Introduction to Engineering Design (1)(PLTW) ^
				Computer Integrated Manufacturing (1) (PLTW) ^ *
				Digital Electronics(1) *
				Engineering Design and Problem Solving (1) *
	Public Service	Law and Public Service	Legal Studies	Political Science I (1)
				Political Science II (1) *
				Business Law (1)
				Project Based Research (1) *
	Public Service OR STEM	Health Science	Healthcare Diagnostics	Principles of Health Science (1)
				Medical Terminology (1)
				Anatomy and Physiology (1)* AND Health Science Theory (1) *
				Practicum in Health Science (2)¹ OR
				Pathophysiology (1)¹

WHEATLEY	**Business and Industry**	Arts, A/V Technology and Communications	Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1)
				Animation I (1)
				Animation II (1) *
				Career Preparation I (2) *
		Hospitality and Tourism	Culinary Arts	Principles of Hospitality and Tourism (1)
				Introduction to Culinary Arts (1)
				Culinary Arts (2)
				Advanced Culinary Arts (2) *
		Information Technology	Web Development	Principles of Information Technology (1)
				Project Based Research (1) *
				Career Preparation I (2) *
				(none)
		Transportation, Logistics and Distribution	Automotive	Principles of Transportation Systems (1)
				Automotive Basics (1)
				Automotive Technology I: Maintenance and Light Repair (2) *
				Practicum in Transportation Systems (2)*
	Public Service	Law and Public Service	Government and Public Administration	Principles of Government and Public Administration (1)
				Dimensions of Diplomacy (1)*^
				Planning and Governance (1) *
				Prac. in Local, State and Federal Govt (2)* OR Public Mgmt. (1) *
		Education and Training	Early Learning (PTECH)	Principles of Education and Training (1)
				Child Development (1)
				Child Guidance (2) *
				Career Preparation I (2)*
WISDOM	**Business and Industry**	Architecture and Construction	Carpentry	Principles of Construction (1)
				Construction Technology I (2)
				Mill and Cabinetmaking Technology (2) *
		Business, Marketing, and Finance	Business Management	Principles of Business, Marketing and Finance (1)
				Business Information Management I (1)
				Business Information Management II (1)* C
				Human Resource Management (0.5) * AND Global Business (0.5
				Practicum in Business Management (2)*
		Manufacturing	Welding	Introduction to Welding (1)
				Welding I (2)
				Welding II (2)*
	Business and Industry OR STEM	STEM	Engineering	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1) *
				Engineering Design and Presentation II (2)*
				Engineering Design and Problem Solving (1)*
			Programming and Software Development	Fundamentals of Computer Science (1)
				Computer Science I (1)
				Computer Science II (1)*
				Practicum in Information Technology (2)*
	Public Service	Education and Training	Teaching and Training	Principles of Education and Training (1)
				Human Growth and Development (1)
				Instructional Practices (2) *
				Practicum in Education and Training (2)*
		Law and Public Service	Law Enforcement	Principles of Law, Public Safety, Corrections and Security (1)
				Law Enforcement I (1)
				Correctional Services (1)*
				Federal Law Enforcement and Protective Services (1)

Campus	Endorsement	Career Cluster	Program of Study	Courses
WORTHING	Business and Industry	Agriculture, Food and Natural Resources	Animal Science	Principles of Agriculture, Food and Natural Resources (1)
				Livestock Production (1) *
				Small Animal Management (0.5) OR Equine Science (0.5)
				Practicum of Agriculture, Food and Natural Resources (2)*
		Hospitality and Tourism	Lodging and Resort Management	Principles of Hospitality and Tourism (1)
				Hotel Management (1)
				Travel and Tourism Management (1)
				Practicum in Hospitality Services (2)*
		Information Technology	Web Development	Principles of Information Technology (1)
				Project Based Research (1) *
				Web Design (1) *
				Web Game Development (1) *
	Public Service	Education and Training	Teaching and Training	Principles of Education and Training (1)
				Human Growth and Development (1)
				Instructional Practices (2)*
				Practicum in Education and Training (2)*
YATES	Business and Industry	Arts, A/V Technology, and Communications	Design and Multimedia Arts	Principles of Arts, Audio/Video Technology, and Communications (1)
				Digital Media (1)
				Commercial Photography I (1)
				Commercial Photography II (1)*
			Digital Communications (1)	Principles of Arts, Audio/Video Technology, and Communications (1)
				Professional Communications (0.5) AND Web Communications (0.5)
				Digital Audio Technology I (1)
				Digital Audio Technology II (1) *
			Digital Communications (2)	Principle of Arts, Audio/Video Technology, and Communications (1)
				Audio/Video Production (1)
				Audio/Video Production II (2)*
				Practicum in Audio/Video Production (2) *
		Business, Marketing and Finance	Marketing and Sales	Principles of Business, Marketing, and Finance (1)
				Marketing (1)
				Fundamentals of Real Estate (2) *^
				Practicum in Entrepreneurship (2) *^
		Transportation, Distribution, and Logistics	Distribution and Logistics	Principles of Distribution and Logistics (1)
				Management of Transportation Systems (1)
				Distribution and Logistics (1) *
				Practicum in Distribution and Logistics (2) *
YWCPA	STEM OR Public Service	STEM	Biomedical Science	Principles of Biosciences (1)
				Biotechnology I (1)
				Biotechnology II (1)*
				Practicum in STEM (2) * OR Scientific Research and Design (1) *
	Business and Industry OR STEM		Engineering	Principles of Applied Engineering (1)
				Engineering Design and Presentation I (1) *
				Engineering Design and Presentation II (2)*
				Engineering Design and Problem Solving (1) * OR Practicum in STEM
			Programming and Software Development	AP Computer Science Principles (1)
				Computer Science I (1) *
				Advanced Cloud Computing (1)*
				Career Preparation I (2)*

* TEA Advanced CTE course

^ TEA Innovative Course