ITEM A.1 (AGENDA REVIEW)

What percentage of our students are NOT enrolled in AP, IB, dual credit, dual enrollment, CTE/IBC, etc.? ==*UPDATED 2/7/23*==

Twenty percent of students are not enrolled in any pathway.

What percentage of our students are enrolled in more than one of these pathways? ==*UPDATED 2/7/23*==

Thirty-seven percent of students are enrolled in more than one pathway.

Please include the attachment that was shared in the board referral request on industry-based certification data as well as the questions and responses. (referral #3471).

The document is here.

Please attach the spreadsheet – Career & Technical Education (CTE) programs of study - that was part of the May Q&A.

The document is here and also included with the Q&A.

What systems are in place to evaluate the effectiveness of Career & Technical Education (CTE) programs (students are actually earning their industry-based certifications (IBC) and students are actually gainfully employed in their field after high school) and how are you evaluating those systems?

It is inherently challenging to track employment after high school due to barriers to receiving the employment data from state and federal sources. Even with that data, it is challenging to evaluate whether the job is in the student's field. For example, one cannot tell from government data if a student who earned an HVAC certification and is working for Exxon Mobile is using their industry-based certification in their job. To partially compensate for this lack of information, we use graduation exit surveys to learn where students say they will be working and what they will be doing. While it will not provide complete data, it should lead to enough information to evaluate how effective the IBC programs are in leading to related gainful employment.

Within our power now is to measure how effectively students are earning their industry-based certifications. We have found that we need to do this analysis on a campus-by-campus basis because too many of the barriers to students completing their IBCs are localized to the campus. To mitigate these barriers, Career Readiness holds regular meetings with campus leadership and has district specialists who work with campus staff. They work with teachers to ensure that the material is being taught with fidelity to maximize the success of students earning their IBCs. They also work with counselors and Tier II

leaders to ensure that the proper courses are being offered and that students are being scheduled into those courses. As a final step, they constantly monitor the number of IBC vouchers ordered, completed, and recorded to ensure that students are completing that important step. Annual review meetings are held with the leadership at each campus to review labor market data, enrollment, completion, and IBC outcomes of the students.

Are you evaluating the students that could quality for the College, Career, and Military Readiness (CCMR) outcomes bonus funding? Are there students that are close to meeting the criteria but just need an extra boost? Please explain.

The CCMR outcomes bonus funding can be earned through one of two pathways:

1) A student earns college-ready status through standardized test scores (SAT, ACT, TSIA2) and enrolls in college the following fall semester; or

2) A student earns an industry-based certification (IBC) and enrolls in college the following fall semester.

We have found that approximately 80% of students who enrolled in college and were close but did not meet one of the two pathways were closer on the college-ready pathway. With these students we are working to strategically prepare them to score as college-ready through the SAT or TSIA2, depending on the student's particular circumstances. This is where tools such as Khan Academy can be leveraged.

Increasing CCMR outcome bonus among students in the IBC pathway involves encouraging those students who earn the IBC but may not see themselves as "college material" to explore community college opportunities to expand on the credentials they have already earned in high school. There are currently eight Career Readiness advisors embedded on campuses that specialize in this work. Additionally, we work to ensure that students complete their IBC. The CTE teacher administrating the exams provide the instruction and make determinations regarding the knowledge and skill building needed by the students to be successful. For the platforms that we have where specific objective mastery can be pinpointed, we provide teachers with additional resources where available and pay for an additional exam to give the student the opportunity to earn the IBC.

How are you evaluating the correlation between the job market demands/what students and families want and what industry-based certifications (IBCs) we offer?

The Career Readiness team is constantly monitoring data from the Texas Workforce Commission and the Houston-Galveston Area Council. Additionally, it maintains continual communication with its Business Advisory Council as well as other business partners to maintain a sense of what employers are wanting and to ensure that our programs are providing students with the knowledge and skills valued in the industry.

On the student/family side, before there are changes to Career & Technical Education programs offered

on a campus, the campus conducts a community survey to learn about interests from students, families, and local businesses. After the survey is conducted, Career Readiness staff meet with campus leaders to discuss where there is overlap between the community interest and regional jobs data.

Annually, Career Readiness staff meets with campus administration to discuss program enrollment and completion rates, and whether it is best to continue with the program, adjust it, or transition to something else.

Finally, if a student's zoned campus does not offer a program the student wishes to join, then they are able to either apply to the programs through magnet or through a CTE transfer with the Office of School Choice.

What barriers exist to increase both student participation/completion and increasing access to Career & Technical Education (CTE) and industry-based certifications (IBCs)?

We face many of the same barriers and challenges as other academic areas when it comes to learning loss and teacher retention. Finding certified and qualified teachers able to teach certain courses is a regular barrier in some CTE pathways. Some of our greater barriers come with logistics and scheduling with individual campuses. When students fall behind in academic core classes, completion of programs of study proves more challenging. We are continuing to work with campus leaders and counseling to assist with master scheduling of courses and sequencing for programs. Often the certifying entity itself has requirements that are more straining on the district than previously required. We are working with Legal Services and other partnering districts to find solutions. We have increased experiential opportunities for students to engage with different industry partners. Students have participated in multiple Career Test Drives that provide hands-on learning about multiple trades. We are engaging middle school students by providing event to expose them to non-traditional careers like our "Girls in Industry Day" event coming up during February CTE Month.

ITEM A.1 (BOARD MEETING)

What is the long-term vision/plan for Grow Your Own?

One initiative within the World-Class Talent Commitment of the strategic plan is Grow Your Own Programs. The scope of this initiative is to provide prospective future teachers with skills, knowledge, and certification to lead as teachers. Our own HISD Alternative Certification Program is a part of this initiative, and we significantly increased participation in this program for School Year 2022-2023, adding a mid-year cohort and leveraging ESSER funds to make the program cost-free for participants. The program will continue to be cost-free for participants in SY 2023-2024. The Talent Office has been engaged in ongoing exploration, collaboration, and planning with a range of IHE (institution of higher education) partners, in particular the University of Houston, the University of Houston-Downtown, and

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the University of Houston-Clear Lake. The purpose has been to identify areas for partnership that will allow HISD to establish coordinated, prioritized, financially supported and sustainable programs for future teachers, with a special focus on the target populations of HISD graduates and HISD teaching assistants. With support from the Houston Endowment, we anticipate registering one or more partnerships as Department of Labor apprenticeship programs soon. While these various elements of work continue simultaneously, we are deliberately building a comprehensive Grow Your Own program plan over a six-month period that began in January. We look forward to sharing more on the long-term vision and plan when that work is finished.

Are all schools using T-TESS?

Yes. We adopted the Texas Teacher Evaluation and Support System (T-TESS) rubric as the district's instructional framework and partnered with Region 4 Educational Service Center to train 100% of campus-based appraisers. After early input from a teacher design committee and a technical committee, we designed the T-TESS teacher evaluation system to include multiple measures of performance: 40% instructional practice, 40% student growth, and 20% student feedback. In these design decisions, we considered our priorities to provide teachers with fair, accurate, meaningful information while also building a foundation for a successful Teacher Incentive Allotment program. We are engaged in ongoing calibration activities across schools, engaging school leaders in recurring step-backs to examine trends in instructional practice and observation ratings. Given our interest in effective change management, we announced that teachers' first summative ratings under T-TESS will be in the spring of 2024, allowing time to analyze first-year experiences and adjust as needed.

Please describe the personalized outreach to newly recruited teachers. Please describe support for Principals around talent management

Personalized outreach to newly recruited teachers is listed in the Superintendent's response as one of the targeted supports for newly recruited teachers in the identified campuses for this constraint progress measure. First, the HISD Alternative Certification Program and Teacher Career Development teams – each of which provides direct and indirect support to newly recruited teachers – will provide more hours of support to teachers in the identified campuses over the next five months. Second, we will engage in additional personalized outreach by email and/or telephone to newly recruited teachers in these schools before and after we administer our new Intent to Return process in February and March.

Strategic Talent Management is one of the nine initiatives within the World-Class Talent commitment of the strategic plan. The purpose of this initiative is to provide proactive and strategic support to principals and other hiring managers. The Talent Office has a Talent Management department made up of Talent Managers, who each have a caseload of principals or central office supervisors they support as a one-stop-

shop liaison for anything related to talent/people management. In November and December, principals were assigned to their new (or continuing) Talent Manager, and we have received very positive feedback about the day-to-day supports they are providing. Looking ahead, one example of coordinated support will relate to a new district-wide staff survey. As the district introduces a new instructional culture survey of teachers (and other campus-based staff) this spring, Talent Managers will support principals in reviewing and planning based on the feedback provided by their teachers (and other campus-based staff).

ITEM A.2

Please explain Function 91 and Function 97.

Function 91 is our recapture payment; the description is what TEA calls this function.

Function 97 is our Tax Reinvestment Zone Payments (TIRZ). These are contractual agreements by which the taxes we collect in these zones are remitted to the City of Houston to fund a portion of the overall City plan in these zones. The City of Houston in return sends a portion back to HISD for instructional facility support.

ITEM A.4

Where is this report?

HERC is making edits to the final draft as recent reports are finalized. The final report will be shared with trustees at the Feb. 9 board meeting.

ITEM H.1

How were these campuses determined to be the most needed? Criteria?

The need for roof replacement was determined by the Facilities Conditions Assessment in conjunction with the HISD master roofer who determined that the specified schools were deemed critical at this time.

Why is Atlas listed two times? And two separate amounts?

Three (3) individual roofing bid packages were developed to obtain the best prices and therefore each bid package is a stand-alone package; Atlas Roofing submitted the best cost proposal for two out of the three bid packages. Each vendor can bid on as many packages as they choose. Each roofing bid package has a specified scope for the schools within the package and cost may vary according to project scope.

ITEM H.3

What other campuses can benefit from this idea? What foreseeable occurrences would cause the cost to increase from $500k to over $1M?

The scope of this project was developed and funded by the campus. Any academic benefit would require a response from the campus-based administration.

The budget for this project increased due to the availability of additional funding provided to the school by external sources.

What function are these funds allocated from? How was this school selected?

This would be funded from Function 81 Facilities acquisition and construction. The funding derived from an appropriations HUD grant from Congresswoman Sheila Jackson Lee's office. The project was started at Booker T. Washington High Schools campus in 2016. Booker T. Washington students presented the project to the community and Congresswoman's office became interested and wanted to assist in Booker T. Washington Vision Project.

ITEM I.1

Which campuses have been identified to have asbestos? What exactly is the purpose of a project management? Why can't the asbestos just be removed?

This preemptive project allows the district to hire a third-party consulting firm for sample testing and project management should asbestos be identified in a district building.

Which campuses have a culinary program? Why is there no advertising of this program?

Currently six campuses offer Culinary Arts program of study. All Career & Technical Education programs are located on the department website, along with School Choice and the district "School Finder" tool. Campuses also host their own events to promote their programs to students and parents.

ITEM I.4

Texas Connections Academy enrollment decreased? I thought they had a wait list. By how many?

Texas Connections enrollment for 2022-2023 is 8,967 comparted 2021-2022 enrollment of 10,127 based on fall snapshot. As schools have returned to in-person learning, the demand for a virtual environment has significantly declined.

It looks like many of our revenue streams are decreasing. Have we thought of other revenue streams? Please share examples of what other districts in the region and in Texas are doing.

Overall revenues are increasing for the General Fund, Debt Service, and Nutrition Services.

In the General Fund, property tax revenue is decreasing primarily due to the impact of a lower tax rate adopted in October 2022 which is determined through TEA's Voter Approved Tax Rate process even though certified property values were higher compared to certified estimated values.

In school districts, there are two primary ways to generate new retainable revenues (net of recapture).

   1) increase enrollment, average daily attendance, ensure students are property identified in special categories like economically disadvantaged, and

   2) Voter Approved Tax Rate (VATR) election asking voters to approve an increase in the district's maintenance and operations tax rate.

In the Debt Service Fund, property taxes are increasing due to higher certified property values compared to certified estimated values.

In the Nutrition Services Fund, the primary driver is a temporary increase in federal reimbursement M rates for school meals.

REFERENCING THE LONE STAR GOVERNANCE MANUAL FOR VISION AND GOALS 4 (CPMS):

Is the status of each Constraint Progress Measure able to be updated multiple times during the school year? How will the monitoring calendar be adjusted? (Preparing to Focus)

Yes, each of these will have data that can be shared multiple times. The monitoring calendar is being updated and will be included in the March board meeting agenda items if these CPMs are deemed predictive of the constraint itself by Trustees in February.

What are the annual targets for these proposed Constraint Progress Measures? (Approaches Focus)

Once the Trustees have given administration the approval to move forward with these recommended CPMs, annual targets will be set and reported during the first round of CPM reporting.

How will these Constraint Progress Measures (CPM) challenge the organization to focus on the vision? (Meets Focus)

These higher targets are a challenge to the organization in that they require significant outreach, continuation of current partnerships, a change in resource allocation for attendance measures, and campus and administration collaboration for space identification.

How will these Constraint Progress Measures (CPM) challenge the organization to uphold community values? (Meets Focus)

They are aligned and predictive of the constraint that was developed by Trustees to align to the community values they identified before adopting the constraints. Therefore, by being predictive, they in turn also challenge the organization to uphold the community values.

How are they predictive of Constraint 2? (Meets Focus)

Each of these three areas is predictive in that they are indicators of effective wraparound programs. By focusing on these indicators, we are inherently ensuring we are providing an effective program.

Are they influenceable by the superintendent? (Meets Focus)

Yes, in that they require work from administration to ensure success.

What community involvement and communication were conducted to ensure there is broad community ownership of these constraint progress measures by students, staff, and community members? (Masters Focus)

In collaboration with HERC, HISD's Wraparound Services conducted multiple surveys of families and students to identify the needs of the community in this area. These Constraint Progress Measures are aligned with what resources are needed to support our students. Additionally, a data analysis was conducted as we are focused on the negative impacts of chronic absenteeism and truancy, so the additional CPM was added to address mitigating these impacts.

A concern about the current Constraint Progress Measures (CPM) is they are measuring adult outputs and not effectiveness in terms of student impact. This has the potential to promote a focus on meeting quotas instead of effectively identifying and supporting student needs. The proposed revised CPM 2.1 successfully shifts the focus to student impact; however, CPMs 2.2 and 2.3 are written in a way that is retains focus on adult outputs. Could those be written in a way that is more student-centered?

CPMs 2.2 and 2.3 are written to emphasize the foundational elements of effective wraparound systems. Research suggests that in order to be able to support 2.1, there must be a clear and consistent availability of resources to meet the most immediate need of students. Based on data from our district platform and the Needs Assessment Survey by the Houston Education Research Consortium, basic needs (food insecurity, clothing, hygiene products, etc.) and physical and socioemotional needs remain at the top of identified needs in our district.

Specifically for Constraint Progress Measure (CPM) 2.2, does increasing the number of schools with a basic resource space automatically ensure that all students identified as needing those items receive them "immediately" from the time the need was identified in PURPLE?

Research shows that the essence of wraparound systems is to remove barriers for students and families to increase students' potential for academic readiness. The ability to meet students' basic needs is often considered a crucial action of effective wraparound support in school systems. While this is not an "automatic" process, establishing a space on campus with basic needs items expedites the ability to meet the identified need of our students. This also creates a consistent point of support for both the student and the family, making it a more direct connection to be at the school, especially for students that are missing class because of not having access to some of those resources.

Specifically for 2.3, how will this Constraint Progress Measure (CPM) ensure that the percentage of students identified as needing services are connected with the services they need? Does increasing the number of providers automatically increase connecting students to those services in a timely manner? How was the target number chosen? How does this ensure effectiveness of the services providers to meet the identified needs of students?

As we continue to see the high demand for mental health support and recognizing the barriers (such as partners' capacity, location, and type of services, among others,) we want to ensure we continuously increase the number of partners in this area. Increasing the number of partners does not automatically increase connecting students to those services because the type of services may vary, but it increases the opportunity to have more offerings to serve as many students as possible. Some providers might be funded by grants requiring the student to have insurance, a social security number, or other limiting requirements. The target was chosen based on calculations on the average number of partners that have been able to be processed in a given school year. Existing research suggests that effective wraparound services in a school setting should include a range of services, including mental health services, which requires collaboration with partners and organizations that can offer such services in a coordinated, comprehensive, and accessible manner.

While the constraint specifically states "wraparound services," are support services provided by other departments, such as Student Support Services, included in the data measured by CPM 2.1?

Yes. Through this constraint, the term "wraparound systems" includes the broader umbrella of Student Support Services, including counselors, social workers, and physical and mental health. The Wraparound department is a part of this system, as they are the connectors, but the services and supports encompass a

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broader collaboration, including campus administration support. For the last two years, we have been very focusing on ensuring holistic support is available and designing ways to create an ecosystem that can be sustainable in supporting the needs of our students, and we will continue to add more layers to ensure the continuity of care and support. Having the right tools to get to that goal will be fundamental to the success of executing effective wraparound support systems.

What percentage of Tier 3 students moved from Tier 3 in fall 2021 to Tier 2 in spring 2022?

Because this is a new metric that we will be monitoring now, the system was not set up to report this specific measure on prior academic years.

Why are these Constraint Progress Measures (CPMs) ending in June 2024? While CPMs can have a one- to five- year deadline, the constraint is not timebound and therefore these CPMs can end in 2024, although they are not required to do so. There is no requirement that the deadline for constraints is the same as for goals.

The constraints' end date can certainly be extended to a date the Board considers most appropriate to measure the progress of this work. As the work evolves, we will monitor, review, and adjust where needed. Based on conversations during the progress measure development, we want to ensure that the progress measures are still driving adult behavior change in June 2024 when we meet the goals of our next steps.

For revised 2.1, this seems like an impactful measure that not only will promote better outcomes for students who are chronically absent because they can't learn if they aren't in school but has the additional benefit of increasing ADA. For this Constraint Progress Measure (CPM), why was this target chosen and why does the superintendent believe we only need to monitor this CPM for one year?

School-based Wraparound systems have the potential to increase student attendance by addressing the non-instructional barriers that may prevent students from attending school regularly. By providing a range of services and support to address these barriers, effective wraparound systems can create a more positive and supportive learning environment for students and positive connections with caring adults, which increases students' sense of belonging and engagement in schools, which in turn can lead to better attendance. We also recognize that increasing student attendance is a complex issue, and wraparound systems alone may not be able to solve all the factors that affect attendance. However, when implemented effectively and with adequate resources, wraparound systems can be an effective strategy for addressing some of the non-instructional barriers to attendance and contribute to improving student attendance.

The current goals and constraints progress measures all are set to expire by 2024; this expiration date is

consistent with the remainder of the board timelines. The superintendent believes that our students, who often face a myriad of socioemotional challenges, require an intentional approach to support some of the most immediate identified needs. Year one data will provide a baseline toward continuous progress monitoring and, if/when needed, necessary adjustments can be made.

For revised CPM 2.2, as proposed, for how many of the remaining campuses over the two hundred target does the data demonstrate that there is a need for a basic needs resource space?

Consistent with what best practices and research suggest, having an effective wraparound system in a school setting should include the ability to meet the basic needs as promptly as possible. Considering we have 250 Title I campuses, by targeting two hundred campuses we ensure that at least 80% of these campuses are positioned to meet identified basic needs of our students.

For revised 2.3, is seventy the maximum number needed?

Seventy would be the minimum needed, considering the demand for mental health services continues the trends from the last 2.5 years.

Campus	Career Cluster	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
AUSTIN	Architecture and Construction	Carpentry	CTE Options on Home Campus CTE Options on Home Campus Construction Technology I (2) Construction Technology II (2)*	NCCER Core Level I	YES	
	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)*	MOS Word, Google Analytics Individual Qualification	YES*, NO	
	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)*	MSSC Certified Logistics Technician (attempted)	YES	
		Maritime Science	Principles of Maritime Science (1) Maritime Science I (1)^ Maritime Science II (1)^ Practicum in Distribution and Logistics (2)*	MSSC Certified Logistics Technician (attempted)	OSHA 30 Hour General*	
	Information Technology	Networking Systems	Principles of Information Technology (1) Computer Maintenance (1) Networking (1)* Practicum in Information Technology (2)*	MTA Neworking Fundamentals	CompTIA A+/Network+/Server+, Cisco CCNA *(200-301), Cisco 100-490 RSTECH, NOCTI Computer Networking Fundamentals - Job Ready	(DSA needed)
		Web Development	Principles of Information Technology (1) Project Based Research (1)* Web Design (1)* Web Game Development (1) *OR Practicum in Information Technology (2)*	NONE	Orcale Certified Associate Java SE 8 Programmer, NOCTI Web Design - Job Ready	(DSA needed)
	Manufacturing	Welding	Principles of Manufacturing (1) Introduction to Welding (1) Welding I (2) Welding II (2)*	NCCER Core Level I, NCCER Welding Level I	YES, YES	
	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)*	AutoDesk Certified Professional or User AutoCAD	Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
	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)*	Educational Aide I	YES	
BELLAIRE	Arts, Audio/Visual Technology, and Communication	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1) Graphic Design and Illustration I (1) OR Digital Media (1) Graphic Design and Illus. II (1)* OR Digital Design and Media Prod. (1) Practicum in Entrepreneurship (2)*^	Adobe Certified Associate Photoshop	YES	
	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)*	Microsoft Office Specialist Word, Entrepreneurship and Small Business	YES*, YES	
		Marketing and Sales	Principles of Business, Marketing, and Finance (1) OR Business Information Management I (1) Marketing (1)^ Advertising (.5) AND Sports and Entertainment Marketing (.5) Statistics and Business Decision Making (1)*		Entrepreneurship and Small Business	
	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)*		Certified Logistics Technician, OSHA 30 General*	(DSA needed CLT)
	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 Applications (1)*		Certified Veterinary Assistant Level 1, Elanco Fundamentals of Animal Science, Licensed Veterinary Technician	
		Plant Science	Principles of Agriculture, Food, and Natural Resources (1) Floral Design (1)* Advanced Floral Design (1)* Advanced Plant and Soil Science (1)*		TSFA Level 1 Floral Certification	
	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)*		C++ Certified Associate Programmer, CompTIA Linux+, Oracle Certified Associate Java SE 8 Programmer, Oracle Database SQL Certified Associate	(DSA needed)
		Programming and Software Development (2)	Fundamentals of Computer Science (1) Computer Science I PAP (1) Mobile Application Development (1) Computer Science II PAP (1)*		Apple App Development with Swift, Oracle Certified Associate Java SE 8 Programmer, Oracle Database SQL Certified Associate	(DSA needed)
	Human Services	Family and Community Services	Principles of Human Services (1) Professional Communications (.5) AND Interpersonal Studies (.5) Lifetime Nutrition and Wellness (1) Counseling and Mental Health (1)*		Child Development Associate	
			Principles of Agriculture, Food and Natural Resources (1)			

School	Career Cluster	Program of Study	Courses	Certification 1	Certification 2	Status
CHAVEZ	Agriculture, Food and Natural Resources	Environmental and Natural Resources	Wildlife, Fisheries, and Ecology Management (1)		Water Operators - Class D, Natural Resources Systems (NOCTI)	(Cold Start())
			Forestry and Woodland Ecosystems (1)			
			Range Ecology and Management (1)*			
	Arts, Audio/Visual Technology, and Communication	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)	Adobe Certified Illustrator, Adobe Certified Photoshop	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
			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)	Adobe Certified Associate Premiere Pro	YES [Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop,	
			A/V Production I (1)			
			A/V Production II (1)*			
			Practicum in A/V Production (2)* OR Digital Audio Technology I (1)*			
	Agriculture, Food and Natural Resources	Animal Science	Principles of Agriculture, Food and Natural Resources (1)	Certified Veterinary Assistant Level I	YES, Elanco Veterinary Technician	
			Livestock Production (1)*			
			Veterinary Medical Applications (1)*			
			Advanced Animal Science (1)*			
		Plant Science	Principles of Agriculture, Food and Natural Resources (1)	Texas State Floral Association Floral Skills Knowledge Based	YES [Texas State Floral Association Floral Skills Knowledge Based, TSFA Level 1 Floral Certification]	
			Greenhouse Operations (1)			
			Floral Design (1)*			
			Advanced Plant and Soil Science (1)*			
	STEM	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++	
			Engineering Design and Presentation I (1)			
			Digital Electronics (1)*			
			Engineering Design and Problem Solving (1)*			
		Renewable Energy	Principles of Applied Engineering (1)		NCCER Electronic System Technician Level I, OSHA 30 General*	
			AC/DC Electronics (1)			
			Solid State Electronics (1)*			
			Digital Electronics (1)*			
	Law and Public Service	Emergency Services (1)	Principles of Law, Public Safety, Corrections, and Security (1)		OSHA Harzardous Waste Operations and Emergency Response*	
			Disaster Response (1)^			
			Emergency Medical Technician - Basic (2)*^			
			Project Based Research (1)*			
		Emergency Services (2)	Principles of Law, Public Safety, Corrections, and Security (1)		OSHA Harzardous Waste Operations and Emergency Response*	
			Disaster Response (1)^			
			Firefighter I (2)*			
			Firefighter II (3)*			
	Health Science	Healthcare Therapeutic	Principles of Health Science (1)	Pharmacy Technician	YES (Patient Care Technician)	
			Medical Microbiology (1)*			
			Medical Terminology (1)			
			Pathophysiology (2)* OR			
			Practicum in Health Science (2)*			
DEBAKEY	Health Science	Healthcare Diagnostics	Principles of Health Science (1)	Certified Clinical Medical Assistant	YES	
			Health Science Theory (1)*			
			Practicum in Health Science (First Time Taken) (2)*			
			Practicum in Health Science (Second Time Taken) (2)*			
		Healthcare Therapeutic	Introduction to Pharmacy Science (1)	Pharmacy Technician	YES, Patient Care Technician	
			Health Science Theory (1)*			
			Practicum in Health Science (First Time Taken) (2)*			
			Practicum in Health Science (Second Time Taken) (2)*			
EAST EARLY	STEM	Renewable Energy	Principles of Applied Engineering (1)		NCCER Electronic System Technician Level I	
			AC/DC Electronics (1)			
			Project-Based Research (1)*			
			Scientific Research and Design (1)* OR Solid State Electronics (1)*			
EASTWOOD	STEM	Engineering	Principles of Applied Engineering (1)	OSHA 30 General	Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++	
			Engineering Design and Presentation I (1)*			
			Engineering Design and Problem Solving (1)*			
			Scientific Research and Design (1)*			
		Programming and Software Development	AP Computer Science Principles (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
			Game Programming and Design (1)			
			AP Computer Science A (2)* OR Mobile Application Development (1)*			
			Independent Study in Technology Applications (2)*			
ENGERGIZED FOR STEM	STEM	Renewable Energy	Foundations of Energy (1)		NCCER Electronic System Technician Level I	
			Introduction to Renewable Energy (1)			
			Environmental Sustainability (1) (PLTW)*			
			Practicum in Science, Technology, Engineering and Mathematics (2)*			
ENERGY INSTITUTE	Manufacturing	Advanced Manufacturing and Machinery Mechanics	Principles of Manufacturing (1)	Certified SOLIDWORKS Associate	NO, OSHA 30 General*	
			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)	OSHA 30 General	Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++, Certified SOLIDWORKS Associate*	
			Engineering Science (1)*			
			Environmental Sustainability (1) (PLTW)*			
			Engineering Design and Problem Solving (1)* OR Practicum in STEM (2)*			

School	Career Cluster	Program of Study	Courses	Certification	CCMR	Status
FURR (Jordan Career Center)	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)*	OSHA 30 General	Water Operators - Class D, Natural Resources Systems	(Cold Start)
	Arts, Audio/Video Technology, and Communications	Graphic Design and Multimedia Arts	Principles of Arts, A/V Tech. and Communications (1) / Digital Design and Media Production (1) / Digital Art and Animation (1)* / Career Preparation I (2)*	Adobe Certified Associate Illustrator, Adobe Certified Associate Photoshop, Adobe Certified Associate Premiere Pro	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
	Health Science	Healthcare Therapeutics	Principles of Health Science (1) / Medical Terminology (1) / Health Science Theory (1)* / Pathophysiology (1)*	Certified Clinical Medical Assistant	Certified Clinical Medical Assistant	
HAIS	Business, Marketing, and Finance	Entrepreneurship	Business Information Management I (1) / Mobile Application Development (1) / Project Based Research (1)* / Practicum in Entrepreneurship (2)*^	MOS Word, MOS Excel	Entrepreneurship and Small Business	
	Arts, Audio/Visual Technology and Communications	Graphic 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)*	Adobe Certified Associate Illustrator, Adobe Certified Associate Photoshop, Adobe Certified Expert Illustrator	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
	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)*^		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		Engineering	Principles of Applied Engineering (1) / Engineering Science (1)* / Engineering Design and Problem Solving (1)* / Scientific Research and Design (1)*		Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++,Certified SOLIDWORKS Associate*	
	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)*		NONE	ALTERNATE CCMR
HEIGHTS (Jordan Career Center)	Arts, Audio/Visual Technology and Communications	Graphic 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)*	Adobe Certified Associate Photoshop, Adobe Certified Expert Photoshop	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
		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)	Adobe Certified Associate Premiere Pro, Adobe Certified Expert Premiere Pro	YES [Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
	Business, Marketing, and Finance	Accounting and Financial Services	Principles of Business and Marketing Finance (1) / Accounting I (1) / Accounting 2 (1) * / Financial Mathematics (1) *	Intuit QuickBooks Certified User	YES	
		Business Management	Principles of Business and Marketing Finance (1) / Business Information Management I (1) / Business Information Management II (1) / Business Management (1)*	MOS Word	YES*, MOS Word Expert	
	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)*	ASE Brakes Entry Level, ASE Refrigerant Recovery and Recycling	YES	
	Information Technology	Web Development	Web Game Development (1) * / Web Design (1) * / Independent Study In Technology Applications (1) * / Project Based Research (1) *		NOCTI Web Design - Job Ready	(Cold Start)
	Manufacturing	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1) / Engineering Design and Presentation I (1) * / Robotics I (1) / Robotics II (1) *	OSHA 30 General	YES*	
	Health Science	Healthcare Diagnostics	Principles of Health Science (1) / Health Science Theory (1) * / Anatomy and Physiology (1) * / Practicum in Health Science (2) *	Certified EKG Technician, Patient Care Technician	YES	
	STEM	Cybersecurity	Foundations of Cybersecurity (1) / Internetworking Technologies (1)^ / TBD / TBD		Comp TIA A+/Network+/Security+, NOCTI Cybersecurity Fundamentals	(DSA needed)
		Government and Public Administration	Principles of Government and Public Administration (1) / Political Science I (1) / Political Science II (1)* / Revenue, Tax, and Regulation (1) *	MOS Word	NONE	ALTERNATE CCMR

Campus	Cluster	Pathway	Courses	Certification	CCMR	Status
HSLJ	Law and Public Service	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)*	IAED Emergency Telecommunicator	YES	
		Law Enforcement	Principles of Law, Public Safety, Corrections and Security (1) Law Enforcement I (1) Law Enforcement II (1)* Forensic Science (1)	Non-Commissioned Security Officer Level II	YES	
		Legal Studies	Principles of Law, Public Safety, Corrections and Security (1) Political Science I (1) OR Business Law (1) Political Science II (1) * OR Political Science I (1) Court Systems and Practices (1)	MOS Excel	NONE	ALTERNATE CCMR
HSPVA	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)*		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
HOUSTON MSTC **(Jordan Career Center)**	Architecture and Construction	Plumbing and Pipefitting	Principles of Construction (1) Plumbing Technology I (1) Plumbing Technology II (2)* Practicum in Construction Technology (2)*	NCCER Core Level I	NO, NCCER Pipefitting Level I/Plumbing Level I, OSHA 30 Hour General OR Construction*	
	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)*	MOS Word, MOS Excel	YES* [MOS Word Expert, MOS Excel Expert]	
	Arts, A/V, Technology and Communicatations	Graphic 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)*^	Adobe Certified Associate Photoshop	YES [Adobe Certified Professional in Visual Design Using Photoshop]	
		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)*^		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
	Transportation, Distribution and Logistics	Automotive	Principles of Transportation Systems (1) Automotive Basics (1) Automotive Technology I (2)* Automotive Technology II (2)* OR Practicum in Transport. Systems (2)*	ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	YES	
	Information Technology	Networking Systems	Principles of Information Technology (1) Computer Maintenance w/ Lab (2) Networking w/ Lab (2)* Computer Technician Practicum (2)*	MTA Windows Operating System Fundamentals	CompTIA A+/Network+/Server+, Cisco CCNA *(200-301), Cisco 100-490 RSTECH	(DSA needed)
	Regional Programs	Drone (Unammed Flight)	Robotics I (1) Robotics II (2)* Introduction to Unmanned Aerial Vehicles (1)^ Practicum in Manufacturing (2) *		FAA Part 107 Remote Drone Pilot	
	STEM	Programming and Software Development	Fundamentals of Computer Science (1) Computer Science I (1) Computer Sciece II (1)* Computer Science III (1)*		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
	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)*	Certified Clinical Medical Assistant	YES	
	Human Services	Cosmetology	Introduction to Cosmetology (1) Cosmetology I (2)* Nail Care, Enhancements and Spa Services (2)^ Cosmetology II (2)*	Cosmetology Operator License	YES	
JONES	Architecture and Construction	Architectural Design	Principles of Architecture (1) Architectural Design I (1) Architectural Design II (2)* Practicum in Architectural Design (2)*	Autodesk Certified Professional or User AutoCAD	YES, Autodesk Associate (Certified User) AutoCAD, Autodesk Certified Professional in AutoCAD for Design and Drafting	
		HVAC and Sheet Metal (PTECH 22/23)	Principles of Construction (1) Heating, Ventilation, and Air Conditioning and Refr. Tech I (1) Heating, Ventilation, and Air Conditioning and Refr. Tech II (2) Practicum in Construction Technology (2)*	OSHA 30 Hour General	YES* [OSHA 30 Hour General/Construction*, NCCER Core Level I/HVAC Level I, Refrigerant Handling EPA 608]	
	Health Science	Healthcare Diagnostics	Principles of Health Science (1) Health Science Theory (1)* Anatomy and Physiology (1)* Practicum in Health Science (2)* OR Medical Microbiology (1)*	Phlebotomy Technician, Certified EKG Technician, Certified Clinical Medical Assistant	YES	
	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)*	NCCER Core Level I	YES	

School	Career Cluster	Program of Study	Course Sequence	Certification/Licensure	Articulation/Dual Credit	Status
Barbara Jordan Career Center	Business, Marketing, and Finance	Marketing and Sales	CTE Options on Home Campus	Entrepreneurship and Small Business	YES	
			CTE Options on Home Campus			
			Retail Management (1)* AND Entrepreneurship (1)			
			Advanced Marketing (2)*			
	Hospitality and Tourism	Culinary Arts	CTE Options on Home Campus	ServSafe Manager	YES	
			CTE Options on Home Campus			
			Culinary Arts (2)			
			Advanced Culinary Arts (2)*			
	Transportation, Distribution and Logistics	Automotive	CTE Options on Home Campus	ASE Refrigerant Recovery and Recycling, ASE Maintenance and Light Repair Entry Level (plus level 1 workforce certificates via college)	YES	
			CTE Options on Home Campus			
			Automotive Technology I DCH (2)*			
			Automotive Technology II DCH (2)*			
	Architecture and Construction	Architectural Design	CTE Options on Home Campus		Autodesk Associate (Certified User) AutoCAD	
			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		NCCER Core Level I, NCCER Electrical Level I, OSHA 30 Hour General*	
			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		NCCER Instrumentation Level I	
			CTE Options on Home Campus			
			Principles of Applied Engineering (1) AND Applied Mathematics for Technical Professionals (1)*			
			Introduction to Process Tecnnology (1) AND Petrochemical Safety, Health, and Environment (1)*			
	Manufacturing	Welding	CTE Options on Home Campus	NCCER Welding Level I	YES [NCCER Core Level I, NCCER Welding Level I AWS Sense]	
			CTE Options on Home Campus			
			Welding I (2) DCH			
			Welding II (2)* DCH			
	Education and Training	Teaching and Training	CTE Options on Home Campus	Educational Aide I	YES	
			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	Cosmetology Operator's License	YES	
			CTE Options on Home Campus			
			Cosmetology I (2)* AND Nail Care, Enhancements and Spa Services (1)^			
			Cosmetology II (2)* AND Principles of Cosmetology Design and Color Theory (1)			
	Law and Public Service	Government and Public Administration	CTE Options on Home Campus		NONE	
			CTE Options on Home Campus			
			Political Science I (1) AND Planning and Governance (1)*			
			Political Science II (1)* AND Public Management and Administration (1)*			
	Health Science	Healthcare Diagnostics	CTE Options on Home Campus	Certified Clinical Medical Assistant	YES	
			CTE Options on Home Campus			
			Principles of Health Science (1) AND Health Science Theory (1)*			
			Practicum in Health Science (2)*			
KASHMERE	Arts, Audio/Visual Technology and Communications	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
			Graphic Design and Illustration I (1)			
			Animation I (1)			
			Animation II (1)*			
		Graphic Design and Multimedia Arts (Futures)	Principles of Arts, A/V Technology and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
			Graphic Design and Illustration DCH (1)			
			Animation I DCH (1)			
			Practicum in Graphic Design and Illustration DCH (2)*			
	Business, Marketing, and Finance	Entrepreneurship	Business Information Management I (1)	MOS Word	Entrepreneurship and Small Business	
			Entrepreneurship I (1)			
			Entrepreneurship II (1)^			
			Practicum In Entrepreneurship (2)*^			
	Arts, Audio/Visual Technology, and Communication	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1)	Adobe Certified Associate Photoshop	YES [Adobe Certified Professional in Visual Design Using Photoshop]	
			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)	Adobe Certified Associate Premiere Pro	YES [Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
			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)	MOS Excel Expert, Quickbooks Certified User	YES	
			Money Matters (1)			
			Accounting I (1)			
			Accounting II (2)*			
			Principles of Business, Marketing and Finance (1)	Entrepreneurship and Small Business, MOS Word, MOS Expert		
			Business Information Management I (1)			

School	Cluster	Program	Courses		
LAMAR		Business Management	Business Management (1)*	Entrepreneurship and Small Business, MOS Word, MOS Expert Word	YES [MOS Word Expert]	
			Practicum of Business Management (2)* OR Global Business (0.5) * AND Human Resources Management (0.5)*			
	Hospitality and Tourism	Culinary Arts	Principles of Hospitality and Tourism (1)		ServSafe Manager	
			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)		Certified Hospitality and Tourism Professional	
			Hotel Management (1)			
			Travel and Tourism (1)			
			Hospitality Services (2)* OR Practicum in Hospitality Services (2)*			
	Agriculture, Food and Natural Resources	Animal Science	Principles of Agriculture, Food and Natural Resources (1)	Certified Veterinary Assistant Level 1	YES	
			Livestock Production (1)*			
			Veterinary Medical Applications (1)* OR 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)	Texas State Floral Association Floral Skills Knowledge Based	YES [TSFA Level 1 Floral Certification]	
			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)	Autodesk Certified Professional or User AutoCAD	YES	
			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)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
			Computer Science I PREIB (1)			
			IB Computer Science Standard Level, Year 1 (1)*			
			IB Computer Science Standard Level, Year 2 (1)*			
	Health Science	Exercise Science and Wellness	Principles of Exercise Science and Wellness (1)^		Certified Personal Trainer, Pre-Professional Certification in Nutrition, Food, Wellness	(Cold Start)
			Kinesiology I (1)^			
			Kinesiology II (1)^			
			Practicum in Entrepreneurship (2)*^			
	Human Services	Family and Community Services	Principles of Human Services (1)	OSHA 30 General	Child Development Associate	
			Human Growth and Development (1)			
			Child Development (1)			
			Family and Community Services (1)* OR Practicum in Human Services (2)*			
LIBERTY	Arts, Audio/Video Technology, and Communications	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1)		Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator	
			Graphic Design and Illustration I (1)			
			Graphic Design and Illustration II (1)*			
LONG ACADEMY	STEM	Biomedical Science	Principles of Biosciences (1)		Medical Laboratory Assistant, Medical Laboratory Technician	(Cold Start)
			Biotechnology I (1)			
			Pathophysiology (1)*			
			NONE			
MADISON	Information Technology	Networking Systems	Principles of Information Technology (1)		CompTIA A+/Network+/Server+, Cisco CCNA *(200-301), Cisco 100-490 RSTECH	(DSA needed)
			Internetworking Technologies I (1)^			
			Internetworking Technologies II (1) *^			
			Career Preparation I (2)*			
	Transportation, Distribution and Logistics	Automotive	Principles of Transportation Systems (1)		ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	
			Energy and Power of Transportation Systems (1)*			
			Automotive Technology I: Maintenance and Light Repair (2)*			
			Automotive Technology II: Automotive Service (2)*			
	Agriculture, Food and Natural Resources	Animal Science	Principles of Agriculture, Food and Natural Resources (1)		Certified Veterinary Assistant Level 1, Elanco Fundamentals of Animal Science, Licensed Veterinary Technician	
			Livestock Production (1)*			
			Veterinary Medical Applications (1)*			
			Advanced Animal Science (1)*			
	Manufacturing	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1)		OSHA 30 General*	
			Robotics I (1)			
			Engineering Design and Presentation I (1)*			
			Robotics II (1)*			
		Welding	Introduction to Welding (1)		NCCER Core Level I, NCCER Welding Level I	
			Welding I (2)			
			Welding II (2)*			
			Practicum in Manufacturing (2)*			
	STEM	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
			Engineering Design and Presentation I (1)*			
			Engineering Design and Presentation II (2)*			
			Engineering Design and Problem Solving (1)*			
	Health Science	Healthcare Diagnostics	Principles of Health Science (1)		Certified Clinical Medical Assistant	
			Health Science Theory (1)*			
			Anatomy and Physiology (1)*			
			Practicum in Health Science (2)*			
			Introduction to Cosmetology (1)			

School	Career Cluster	Program of Study	Courses	Certification	Certification	Status
	Human Services	Cosmetology	Principles of Cosmetology Design and Color (1)		Cosmetology Operator License	
			Cosmetology I (2)*			
			Cosmetology II (2)*			
MICKEY LELAND CPA	Arts, Audio/Visual Technology and Communications	Graphic Design and Multimedia Arts	Digital Media (1)	Adobe Certified Associate Photoshop	Adobe Certified Professional in Graphic Design Using Photoshop	
			Digital Design and Media Production (1)			
			Career Preparation I (2)*			
			NONE			
	STEM	Programming and Software Development	Fundamentals of Computer Science (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
			AP Computer Science Principles (1)			
			AP Computer Science A (1)*			
			Career Preparation I (2) *			
MIDDLE COLLEGE HS at HCC GULFTON	STEM	Programming and Software Development	Fundamentals of Computer Science (1)	MOS Word	NO, Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
			Computer Science I (1)			
			Computer Science II (1)*			
			Mobile Application Development (1)*			
MIDDLE COLLEGE HS at HCC FRAGA	Business, Marketing, and Finance	Marketing and Sales	Principles of Business, Marketing, and Finance (1)	MOS Word, MOS Word Expert	NO, NO, Entrepreneurship and Small Business	
			Virtual Business (0.5) AND Advertising (0.5)*			
			Retail Management (1)*^ AND Marketing (1)			
			Career Preparation I (2)*			
MILBY	Architecture and Construction	Carpentry	CTE Options on Home Campus	NCCER Core Level I, OSHA 30 Construction*	YES, NO* (NCCER Carpentry Level I)	
			CTE Options on Home Campus			
			Construction Technology I (2)			
			Construction Technology II (2)*			
		HVAC and Sheet Metal	Principles of Construction (1)		NCCER Core Level I, NCCER HVAC Level I, Refrigerant Handling EPA 608	
			HVAC and Refrigeration Technology I (1)			
			HVAC and Refrigeration I Technology II (2)*			
	Hospitality and Tourism	Culinary Arts	Introduction to Culinary Arts (1)	ServSafe Manager	ServSafe Manager	
			Foundations of Restaurant Management (1)			
			Culinary Arts (2)			
			Advanced Culinary Arts (2)*			
	Manufacturing	Welding	Introduction to Welding (1)	AWE Sense Welding Level I	AWE Sense Welding Level I	
			Welding I (2)			
			Welding II (2)*			
			NONE			
	STEM	Cybersecurity	Fundamentals of Computer Science (1)	MTA Introduction to Programming Using Python	NOCTI Security Fundamentals, Comp TIA A+/Network+/Security+	(DSA needed)
			AP Computer Science Principles (1)			
			Computer Science I (1)			
			Cybersecurity Capstone (2)*^			
		Engineering	Principles of Applied Engineering (1)	OSHA 30 General	Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*, NOCTI Engineering Technology Foundations	
			Engineering Design and Presentation I (1)*			
			Engineering Design and Presentation II (2)*			
			Engineering Design and Problem Solving (1)*			
	Health Science	Healthcare Diagnostics	Principles of Health Science (1)	Clinical Medical Assistant	YES, Pharmacy Technician	
			Medical Terminology (1)			
			Health Science Theory with Clinical (2)*			
			Practicum in Health Science (2)*			
	Human Services	Cosmetology	Introduction to Cosmetology (1)		Cosmetology Operator License	
			Principles of Cosmetology Design and Color Theory (1)			
			Cosmetology I (2) * OR Nail Care, Enhancements, and Spa Svcs (1)^			
			Cosmetology II (2)*			
MOUNT CARMEL ACADEMY	Health Science	Health Informatics	Medical Terminology (1)		Medical Billing and Coding Specialist	
			Business Information Management I (1)			
			Health Informatics (1)*			
			NONE			
NORTH HOUSTON ECHS	Business, Marketing, and Finance	Entrepreneurship	Principles of Business, Marketing and Finance (1)	Entrepreneurship and Small Business, MOS Word	YES, NO	
			Entrepreneurship (1)			
			Entrepreneurship II (1)^			
			Project Based Research (1)* OR Practicum in Entrepreneurship (2)*			
	Law and Public Service	Government and Public Administration	Principles of Government and Public Administration (1)		NONE	ALTERNATE CCMR
			Political Science I (1)			
			Dimensions of Diplomacy (1)*^			
			TBD			
	Architecture and Construction	HVAC and Sheet Metal (DCH)	Principles of Construction (1)	Refrigerant Handling EPA 608 [25 current seniors]	YES (NCCER Core Level 1)	
			HVAC and Refrigeration Technology I (1)			
			HVAC and Refrigeration Technology II (2)*			
			Practicum in Construction Technology (2)*			
	Information Technology	Networking Systems	Principles of Information Technology (1)	MOS Word/Excel	NO (Cisco 100-490/200-301, CompTIA Network+)	(DSA needed)
			Internetworking Technologies I (1)			
			Internetworking Technologies II (1)*			
			Career Preparation I (2)*			

Campus	Career Cluster	Program	Courses	Certifications (industry)	Certification available
NORTH FOREST	Transportation, Distribution and Logistics	Automotive	Principles of Transportations Systems (1) / Energy, Power and Transportation Systems (1) / Automotive Basics (1) / Career Preparation I (2)*	ASE Maintenance Light and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	YES
	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)*	OSHA 30 General, Certified Veterinary Assistant	(NO) YES [Elanco Animal Science Cert]
	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)*	OSHA 30 General	NO (OSHA Hazardous Waste Operations and Emergency Response*, IAED Emergency Telecommunicator)
NORTHSIDE	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)*		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Visual Design Using Photoshop,
		Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology And Communications (1) / Digital Media (1) OR Graphic Design and Illustration I (1) / Graphic Design and Illust. I DCH (2) OR Digital Design and Media Production (1)* / Graphic Design and Illust. II DCH (2)* OR Practicum in Audio/ Video Production (2)*	Adobe Certified Associate Photoshop	YES
	Hospitality and Tourism	Culinary Arts	Principles of Hospitality and Tourism (1) / Introduction to Culinary Arts (1) / Culinary Arts (2) / Practicum in Culinary Arts (2)*		ServSafe Manager
		Lodging and Resort Management	Principles of Hospitality and Tourism (1) / Hotel Management (1) / Hospitality Services (2)* / Practicum in Hospitality Services (2)*	Certified Hospitality and Tourism Management Professional	YES
	STEM	Cybersecurity	Principles of Information Technology (1) / Internetworking Technologies (1)^ / Networking (1)* / Practicum in Information Technology (2)*		Comp TIA A+/Network+/Security+	(DSA needed)
SCARBOROUGH	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)*	Refrigerant Handling EPA 608, OSHA 30 Construction	YES, NO, NCCER Core Level I, NCCER HVAC Level I
	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)*		MOS Word Expert, MOS Excel Expert, Entrepreneurship and Small Business
	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)*	Educational Aide I	YES
SHARPSTOWN	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)*		TSFA Level 1 Floral Certification
	Arts, A/V Technology, and Communication	Graphic Design and Multimedia Arts	Digital Media (1) OR Video Game Design (1) / Animation I (1) / Animation II (1)* / Practicum in Audio/Video Production (2)*		Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
		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 in Entrepreneurship (2)*^		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Visual Design Using Photoshop,
	Health Science	Healthcare Diagnostics	Principles of Health Science (1) / Medical Terminology (1) / Health Science Theory (1)* / Anatomy and Physiology (1)*	Clinical Medical Assistant, Medical Billing and Coding	YES, NO
SHARPSTOWN INTERNATIONAL	Arts, AV Technology and Communications	Graphic Design and Multimedia Arts	Principles of Arts, AV Technology and Communications (1) / Graphic Design and Illustration I (1) / Graphic Design and Illustration II (1)* / Digital Art and Animation (1)*	Adobe Certified Associate Illustrator	YES [Adobe Certified Professional in Graphic Design Using Photoshop]
	Business, Marketing, and Finance	Entrepreneurship	Business Information Management I (1) / Entrepreneurship I (1) / Entrepreneurship II (1)* / Project-Based Research (1)*		Entrepreneurship and Small Business
	Manufacturing	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1) / Manufacturing Engineering Technology I (1) / Engineering Design and Presentation I (1)* / Career Preparation I (2)*		OSHA 30 General*

School	Cluster	Program of Study	Courses	Certification A	Certification B	Status
	STEM	Programming and Software Development	Computer Science I (1) AP Computer Science Principles (1) IB Computer Science SL1 (1)* IB Computer Science HL1 (1)*		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
SOUTH EARLY COLLEGE HS	Business, Marketing, and Finance	Business Management	Business Information Management I (1) Business Information Management II (1) Business Management (1)* Statistics and Business Decision Making (1)*		MOS Word Expert, MOS Excel Expert, Entrepreneurship and Small Business	
	STEM	Engineering	Engineering Essentials (1) (PLTW)^ Introduction to Engineering Design (PLTW) (1)^ Engineering Science (1)* Civil Engineering and Architecture (PLTW) (1)*^		Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
STERLING	Business, Marketing, and Fianance	Business Management	Business Information Management I (1) Business Information Management II (1) Business Management (1)* Practicum in Business Management (2)* OR Career Prep I (2)*	MOS Word, MOS Word Expert, MOS Excel, MOS Excel Expert	NO*, YES, NO*, YES	
	Manufacturing	Welding	Introduction to Welding (1) Welding I (2) Welding II (2)* Practicum in Manufacturing (2)*	NCCER Welding Level I, NCCER Core Level I	YES	
	Transportation, Logistics and Distribution	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 Services (2)*	ASE Painting and Refinishing Entry Level, ASE Refrigerant Recovery and Recycling	YES	
		Aviation Maintenance	Introduction to Aircraft Technology (1) Aviation Maintenance (TBD) Aircraft Airframe Technology (2)* Aircraft Powerplant Technology (2)*	FAA 107 Remote Drone Pilot	NO, Aerospace Manufacturing Certification, OSHA 30 General*	(Cold Start AMC)
		Aviation (Flight)	Introduction to Aircraft Technology (1) Aviation Ground School (1)^ Practicum in Transportation Systems (First-time Taken) (2)* Practicum in Transportation Systems (Second-time Taken) (2)*		FAA 107 Remote Drone Pilot	
	Law and Public Service	Law Enforcement	Principles of Law, Public Safety, Corrections and Security (1) Law Enforcement I (1) Law Enforcement II (1)* Practicum in Law, Public Safety, Corrections and Security (2)*	Non-commissioned Security Officer Level II	YES	
WALTRIP	Arts, AV Technology and Communications	Graphic Design and Multimedia Arts	Digital Media (1) Graphic Design and Illustration I (1) Graphic Design and Illustration II (1)* Digital Art and Animation (1)*	Adobe Certified Associate Photoshop	YES	
		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)*	Adobe Certified Associate Premiere Pro	YES	
	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)*	MOS Word, MOS Word Expert, MOS Excel, MOS Excel Expert	NO*, YES, NO*, YES	
	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) *	ASE Refrigerant Recovery and Recycling	ASE Maintenance Light and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	
	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)*		CompTIA A+, CompTIA Fundamentals+	(DSA needed)
	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)*	Certified SOLIDWORKS Associate	Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
	Health Science	Healthcare Therapeutics	Principles of Health Science (1) Medical Terminology (1) Health Science Theory (1)* Pharmacology (1) *		Pharmacy Technician	
WASHINGTON	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)*	NONE	Certified Veterinary Assistant, Elanco Animal Science Certification	
		Plant Science	Principles of Agriculture, Food and Natural Resources (1) Greenhouse Operations (1) Horticultural Science (1)* TBD			
	Architecture and Construction	Carpentry	Principles of Construction (1) Construction Technology I (2)	NCCER Core Level I	YES	

Campus	Career Cluster	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WASHINGTON	Architecture and Construction	Carpentry	Construction Technology II (2)*	NCCER Core Level I	YES	
			Practicum in Construction Technology (2)*			
	Information Technology	Networking Systems	Principles of Information Technology (1)	MTA Networking Fundamentals	NO (Cisco 100-490/200-301, CompTIA Network+)	(DSA needed)
			Computer Maintenance (1)			
			Networking (1)			
			Advanced Cloud Computing (1)*^			
	STEM	Engineering	Principles of Applied Engineering (1)	Certified SOLIDWORKS Associate, FAA Part 107 Remote Drone Pilot	YES, NO	
			Engineering Design and Presentation I (1)*			
			Engineering Design and Problem Solving (1)*			
			Practicum in STEM (2)*			
Campus	Career Cluster	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WESTBURY	Business, Marketing, and Finance	Business Management	Principles of Business Marketing and Finance (1)	MOS Word, MOS Excel	YES*, YES*, MOS Word Expert, MOS Excel Expert	
			Business Information Management I (1)			
			Business Information Management II (1)			
			Practicum in Business Management (2)* OR Business Management (1)*			
	Information Technology	Web Development	Principles of Information Technology (1)	MTA Introduction to Programming Using HTML and CSS, Unity Certified Programmer	(discontinued), NOCTI Web Design, CWMADA	(Cold Start)
			Web Design (1)*			
			Web Game Development (1)*			
			Project Based Research (1)*			
	Transportation, Distribution and Logistics	Automotive	Principles of Transportation Systems (1)	ASE Brakes Entry Level, ASE Electrical/Electronic Systems Entry Level, ASE HVAC Entry Level, ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling, ASE Suspension and Steering Entry Level	ASE Brakes Entry Level, ASE Electrical/Electronic Systems Entry Level, ASE HVAC Entry Level, ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling, ASE Suspension and Steering Entry Level	
			Automotive Basics (1)			
			Automotive Technology I: Maintenance and Light Repair (2)*			
			Automotive Technology II: Automotive Service (2)* OR Practicum in Transportation Systems (2)*			
	STEM	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
			Introduction to Engineering and Design PLTW (1)^			
			Computer Integrated Manufacturing PLTW (1)^ *			
			Engineering Design and Problem Solving (1)*			
	Law and Public Service	Emergency Services	Principles of Law, Public Safety, Corrections, and Security (1)		OSHA Hazardous Waste and Emergency Response*	
			Disaster Response (1)^			
			Firefighter I (2)*			
			Emergency Medical Technician - Basic (2)^ *			
	Health Science	Healthcare Diagnostics	Principles of Health Science (1)	Clinical Medical Assistant	Clinical Medical Assistant	
			Health Science Theory (1)*			
			Anatomy and Physiology (1) *			
			Practicum in Health Science (2)* OR			
			Pathophysiology (1)*			
WESTSIDE	Agriculture, Food, and Natural Resources	Environmental and Natural Resources	Principles of Agriculture, Food, and Natural Resources (1)		Water Operators - Class D, Natural Resources Systems	(DSA needed)
			Range Ecology and Management (1)*			
			Project Based Research (1)*			
			Scientific Research and Design (1)*			
	Arts, A/V Technology and Communications	Graphic Design and Multimedia Arts (1)	Principles of Arts, A/V Tech and Communications (1)		Adobe Certified Professional in Visual Effects Using After Effects	
			Animation I (1)			
			Animation II w/Lab (2)*			
			Practicum in Animation (2)*			
		Graphic Design and Multimedia Arts (2)	Principles of Arts, A/V Tech and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
			Graphic Design and Illustration I (1)			
			Graphic Design and Illustration II (1)*			
			Practicum in Graphic Design and Illustration (2)*			
		Digital Communications	Principles of Arts, A/V Tech and Communications (1)		Adobe Certified Associate Premiere Pro	
			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)	Quickbooks Certified User	YES (Intuit Quickbooks Certified User)	
			Financial Mathematics (1)* OR Business Information Management (1)			
			Accounting I (1)			
			Practicum in Business Management (2)* OR Career Preparation I (2)*			
		Business Management	Principles of Business, Marketing and Finance (1)	MOS Word	YES*, MOS Word Expert	
			Business Information Management I (1)			
			Business Law (1) OR Global Business (0.5) * AND Virtual Business (0.5)			
			Practicum in Business Management (2)* OR Business Management (1)*			
	Hospitality and Tourism	Culinary Arts	Introduction to Culinary Arts (1)		ServSafe Manager	
			Culinary Arts (2)			
			Advanced Culinary Arts (2)*			
			Practicum in Culinary Arts (2)*			
	STEM	Programming and Software Development	Fundamentals of Computer Science (1)	MTA Introduction to Programming Using Java	C++ Certified Assicate Programmer, Certified Entry-Level Python Programmer, Certified Profressional Programmer	(DSA needed Python)
			Computer Science I (1)			
			Computer Science II (1)* OR AP Computer Science Principles (1)			
			Practicum in Information Technology (2)* OR AP Computer Science A (2) *			
		Engineering (PLTW)	Introduction to Engineering Design (1) (PLTW)^		Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
			Computer Integrated Manufacturing (1) (PLTW)^ *			
			Digital Electronics (1)*			
			Engineering Design and Problem Solving (1)*			
			Political Science I (1)			

Campus	Career Cluster	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
	Law and Public Service	Legal Studies	Political Science II (1)* Business Law (1) Project Based Research (1)*	NONE		ALTERNATE CCMR
	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)* OR Pharmacology (1)*	Clinical Medical Assistant, Pharmacy Technician	YES, YES	
WHEATLEY	Arts, A/V Technology and Communications	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1) Animation I (1) Animation II (1)* Career Preparation I (2)*	NONE	Adobe Certified Professional in Visual Effects Using After Effects, Adobe Certified Professional in Visual Design Using Photoshop, Adobe Certified Professional in Visual Design Using Illustrator	
	Hospitality and Tourism	Culinary Arts	Principles of Hospitality and Tourism (1) Introduction to Culinary Arts (1) Culinary Arts (2) Advanced Culinary Arts (2)*	ServSafe Manager	YES	
	Information Technology	Web Development (INACTIVE)	Principles of Information Technology (1) Project Based Research (1)* Career Preparation I (2)* (none)	NONE	NOCTI Web Design, CWMADA	(DSA needed)
	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)*	ASE Automotive Service Technology, ASE Brakes, ASE Electrical/Electronic Systems, ASE Engine Performance, ASE Maintenance and Light Repair, ASE Manual Drivetrain, ASE Refrigerant, ASE Suspension and Steering	YES	
	Education and Training	Early Learning (PTECH)	Principles of Education and Training (1) Child Development (1) Child Guidance (2)* Career Preparation I (2)*	NONE (phase-in)	NOCTI Early Childhood Educaiton and Care - Basic, Child Development Associate	
WISDOM	Architecture and Construction	Carpentry	Principles of Construction (1) Construction Technology I (2) Mill and Cabinetmaking Technology (2)*	NCCER Core Level I	YES, NCCER Carpentry Level I	
	Business, Marketing, and Finance	Business Management	Principles of Business, Marketing and Finance (1) Business Information Management I (1) Business Information Management II (1)* Human Resource Management (0.5)* AND Global Business (0.5)*	MOS Word, MOS Word Expert	YES*, YES	
	Manufacturing	Welding	Introduction to Welding (1) Welding I (2) Welding II (2)*	NCCER Core Level I	YES, NCCER Welding Level I	
	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)*	OSHA 30 General	Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
		Programming and Software Development	Fundamentals of Computer Science (1) Computer Science I (1) Computer Science II (1)* Practicum in Information Technology (2)*		C++ Certified Assicate Programmer, Certified Entry-Level Python Programmer, Certified Profressional Programmer	(Cold Start / DSA needed Python)
	Education and Training	Early Learning	Principles of Education and Training (1) Child Development (1) Child Guidance (2)* Practicum in Education and Training (2)*		Child Development Associate	
		Teaching and Training	Principles of Education and Training (1) Child Development (1) Instructional Practices (2)* Practicum in Education and Training (2)*	Educational Aide I	YES	
	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)	Non-commisioned Security Officer Level II	YES	
WORTHING	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)*	OSHA 30 General	NO [Certified Veterinary Assistant, Elanco Animal Science Certification]	
	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)*		NOCTI Hospitality Management - Lodging - Job Ready	
	Information Technology	Web Development	Principles of Information Technology (1) Project Based Research (1)* Web Design (1)* Web Game Development (1)*	MTA HTML5 App Development Fundamentals	NOCTI Web Design, CWMADA	(Cold Start)
	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)*	Educational Aide I	YES	

Campus	Cluster	Program	Courses		Certifications	Status
YATES	**Arts, A/V Technology, and Communications**	**Graphic Design and Multimedia Arts**	Principles of Arts, Audio/Video Technology, and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
			Digital Media (1)			
			Commercial Photography I (1)			
			Commercial Photography II (1)*			
		Digital Communications (1)	Principles of Arts, Audio/Video Technology, and Communications (1)		Adobe Certified Professional in Digital Video Using Premiere Pro	
			Professional Communications (0.5) AND Web Communications (0.5)			
			Digital Audio Technology I (1)			
			Digital Audio Technology II (1)*			
		Digital Communications (2)	Principles of Arts, Audio/Video Technology, and Communications (1)		Adobe Certified Professional in Digital Video Using Premiere Pro	
			Audio/Video Production I (1)			
			Audio/Video Production II (2)*			
			Practicum in Audio/Video Production (2)*			
	Business, Marketing and Finance	**Entrepreneurship**	Principles of Business, Marketing, and Finance (1)		Entrepreneurship and Small Business	
			Business Information Management I			
			Entrepreneurship (1)			
			Practicum in Entrepreneurship (2)*^			
	Transportation, Distribution, and Logistics	**Distribution and Logistics**	Principles of Distribution and Logistics (1)		NCCER Core Level I, MSSC Certified Logistics Technician, OSHA 30 General*	
			Management of Transportation Systems (1)			
			Distribution and Logistics (1) *			
			Practicum in Distribution and Logistics (2)*			
YWCPA	**STEM**	**Biomedical Science**	Principles of Biosciences (1)		Medical Laboratory Assistant, Medical Laboratory Technician	(Cold Start)
			Biotechnology I (1)			
			Biotechnology II (1)*			
			Practicum in STEM (2) * OR Scientific Research and Design (1)*			
		Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
			Engineering Design and Presentation I (1)*			
			Engineering Design and Presentation II (2)*			
			Engineering Science (1)* OR Practicum in STEM (2)*			
		Programming and Software Development	AP Computer Science Principles (1)	MOS Word, MOS Excel	NO, NO [C++ Certified Assicate Programmer, Certified Entry-Level Python Programmer, Certified Profressional Programmer]	(Cold Start / DSA needed Python)
			Computer Science I (1)*			
			Game Programming and Design (1)*			
			Career Preparation I (2)*			

* TEA Advanced CTE course
^ TEA Innovative Course

CAMPUS	PROGRAM OF STUDY	IBC ALIGNMENT	IBC IMPLEMENTATION	Growth/Wage Category (GROWTH RATE/SALARY vs. regional median)
NORTH FOREST	**HVAC and Sheet Metal (DCH)**	YES (NCCER Core Level 1)		**HVAC Mechanics and Installers**-HIGH/HIGH
	Networking Systems	NO (Cisco 100-490/200-301, CompTIA Network+)	(DSA needed)	**Computer Network Support Specialists**-LOW/HIGH
	Automotive	YES		**Automotive Service Technicians and Mechanics**-LOW/LOW
	Animal Science	(NO) YES [Elanco Animal Science Cert]		**Animal Breeders**-HIGH/LOW [Bachelor's Degree positions are HIGH/HIGH]
	Emergency Services	NO (OSHA Hazardous Waste Operations and Emergency Response*, IAED Emergency Telecommunicator)		**Firefighters**-HIGH/HIGH; **EMTs**-HIGH/LOW, **Public Safety Telecommunicator**-HIGH/LOW
WHEATLEY	**Graphic Design and Multimedia Arts**	Adobe Certified Professional in Visual Effects Using After Effects		[Bachelor's Degree] **Graphic Designers**-HIGH/LOW
	Culinary Arts	YES		**Cooks**-HIGH/LOW, **Head Cooks and Chefs**-HIGH/LOW
	Web Development	NOCTI Web Design, CWMADA	(DSA needed)	[Associate's Degree] **Web Developers**-HIGH/HIGH
	Automotive	YES		**Automotive Service Technicians and Mechanics**-LOW/LOW
	Early Learning (PTECH)	Child Development Associate		**Childcare Workers**-LOW/LOW

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 2021/2022	Program of Study Alignment 2022-2023?	Implementation
AUSTIN	Carpentry	CTE Options on Home Campus CTE Options on Home Campus Construction Technology I (2) Construction Technology II (2)*	NCCER Core Level I	YES	
	Business Management	Principles of Business, Finance and Marketing (1) Business Information Management I (1) Business Information Management II (1) Business Management (1)*	MOS Word, Google Analytics Individual Qualification	YES*, NO	
	Distribution and Logistics	Principles of Maritime Science (1)^ Management of Transportation Systems (1) Distribution and Logistics (1) * Practicum in Distribution and Logistics (2)*	MSSC Certified Logistics Technician (attempted)	YES	
	Maritime Science	Principles of Maritime Science (1) Maritime Science I (1)^ Maritime Science II (1)^ Practicum in Distribution and Logistics (2)*	MSSC Certified Logistics Technician (attempted)	OSHA 30 Hour General*	
	Networking Systems	Principles of Information Technology (1) Computer Maintenance (1) Networking (1)* Practicum in Information Technology (2)*	MTA Neworking Fundamentals	CompTIA A+/Network+/Server+, Cisco CCNA *(200-301), Cisco 100-490 RSTECH	(DSA needed)
	Web Development	Principles of Information Technology (1) Project Based Research (1)* Web Design (1)* Web Game Development (1) *OR Practicum in Information Technology (2)*	NONE	Orcale Certified Associate Java SE 8 Programmer, NOCTI Web Design - Job Ready	(DSA needed)
	Welding	Principles of Manufacturing (1) Introduction to Welding (1) Welding I (2) Welding II (2)*	NCCER Core Level I, NCCER Welding Level I	YES, YES	
	Engineering	Principles of Applied Engineering (1) Engineering Design and Presentation I (1)* Engineering Design and Problem Solving(1)* Engineering Design and Presentation II (2)*	AutoDesk Certified Professional or User AutoCAD	Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
	Teaching and Training	Principles of Education and Training (1) Human Growth and Development (1) Instructional Practices (2)* Practicum in Education and Training (2)*	Educational Aide I	YES	

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
BELLAIRE	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)	Adobe Certified Associate Photoshop	YES	
		Graphic Design and Illustration I (1)			
		Graphic Design and Illus. II (1)* OR Digital Design and Media Prod. (1)			
		Practicum in Entrepreneurship (2)*^			
	Business Management	Principles of Business, Marketing, and Finance (1)	Microsoft Office Specialist Word, Entrepreneurship and Small Business	YES*, YES	
		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 (1) OR Business Information Management (1)		Inuit Quickbooks Certified User, MOS Excel Expert	
		Money Matters (1)			
		Accounting I (1) OR Financial Mathematics (1)			
		Securities and Investments (1)*			
	Marketing and Sales	Principles of Business, Marketing, and Finance (1) OR Business Information Management I (1)		Entrepreneurship and Small Business	
		Marketing (1)^			
		Advertising (.5) AND Sports and Entertainment Marketing (.5)			
		Statistics and Business Decision Making (1)*			
	Distribution and Logistics	Principles of Distribution and Logistics (1)		Certified Logistics Technician, OSHA 30 General*	(DSA needed CLT)
		Occupational Safety and Environmental Technology (1)^			
		Raster Based Geographic Information Systems (1)^			
		Distribution and Logistics (1)*			
	Animal Science	Principles of Agriculture, Food, and Natural Resources (1)		Certified Veterinary Assistant Level 1, Elanco Fundamentals of Animal Science, Licensed Veterinary Technician	
		Small Animal Management (.5) AND Equine Science (.5)			
		Livestock Production (1)*			
		Advanced Animal Science (1)* OR Veterinary Medical Applications (1)*			
	Plant Science	Principles of Agriculture, Food, and Natural Resources (1)		TSFA Level 1 Floral Certification	
		Floral Design (1)*			
		Advanced Floral Design (1)*			
		Advanced Plant and Soil Science (1)*			
	Programming and Software Development (1)	Computer Science I PAP (1)		C++ Certified Associate Programmer, CompTIA Linux+, Oracle Certified Associate Java SE 8 Programmer, Oracle Database SQL Certified Associate	(DSA needed)
		AP Computer Science Principles (1)			
		AP Computer Science A (2)*			
		Computer Science III (1)*			
	Programming and Software Development (2)	Fundamentals of Computer Science (1)		Apple App Development with Swift, Oracle Certified Associate Java SE 8 Programmer, Oracle Database SQL Certified Associate	(DSA needed)
		Computer Science I PAP (1)			
		Mobile Application Development (1)			
		Computer Science II PAP (1)*			
	Family and Community Services	Principles of Human Services (1)		Child Development Associate	
		Professional Communications (.5) AND Interpersonal Studies (.5)			
		Lifetime Nutrition and Wellness (1)			
		Counseling and Mental Health (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
CHAVEZ	**Environmental and Natural Resources**	Principles of Agriculture, Food and Natural Resources (1)		Water Operators - Class D, Natural Resources Systems	(Cold Start()
		Wildlife, Fisheries, and Ecology Management (1)			
		Forestry and Woodland Ecosystems (1)			
		Range Ecology and Management (1)*			
	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)	Adobe Certified Illustrator, Adobe Certified Photoshop	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
		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)	Adobe Certified Associate Premiere Pro	YES [Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop,	
		A/V Production I (1)			
		A/V Production II (1)*			
		Practicum in A/V Production (2)* OR Digital Audio Technology I (1)*			
	Animal Science	Principles of Agriculture, Food and Natural Resources (1)	Certified Veterinary Assistant Level I	YES	
		Livestock Production (1)*			
		Veterinary Medical Applications (1)*			
		Advanced Animal Science (1)*			
	Plant Science	Principles of Agriculture, Food and Natural Resources (1)	Texas State Floral Association Floral Skills Knowledge Based	YES [TSFA Level 1 Floral Certification]	
		Greenhouse Operations (1)			
		Floral Design (1)*			
		Advanced Plant and Soil Science (1)*			
	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++	
		Engineering Design and Presentation I (1)			
		Digital Electronics (1)*			
		Engineering Design and Problem Solving (1)*			
	Renewable Energy	Principles of Applied Engineering (1)		NCCER Electronic System Technician Level I, OSHA 30 General*	
		AC/DC Electronics (1)			
		Solid State Electronics (1)*			
		Digital Electronics (1)*			
	Emergency Services (1)	Principles of Law, Public Safety, Corrections, and Security (1)		OSHA Harzardous Waste Operations and Emergency Response*	
		Disaster Response (1)^			
		Emergency Medical Technician - Basic (2)*^			
		Project Based Research (1)*			
	Emergency Services (2)	Principles of Law, Public Safety, Corrections, and Security (1)		OSHA Harzardous Waste Operations and Emergency Response*	
		Disaster Response (1)^			
		Firefighter I (2)*			
		Firefighter II (3)*			
	Healthcare Therapeutic	Principles of Health Science (1)	Pharmacy Technician	YES	
		Medical Microbiology (1)*			
		Medical Terminology (1)			
		Pathophysiology (2)* OR			
		Practicum in Health Science (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
DEBAKEY	Healthcare Diagnostics	Principles of Health Science (1)	Certified Clinical Medical Assistant	YES	
		Health Science Theory (1)*			
		Practicum in Health Science (First Time Taken) (2)*			
		Practicum in Health Science (Second Time Taken) (2)*			
	Healthcare Therapeutic	Introduction to Pharmacy Science (1)	Pharmacy Technician	YES, Patient Care Technician	
		Health Science Theory (1)*			
		Practicum in Health Science (First Time Taken) (2)*			
		Practicum in Health Science (Second Time Taken) (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
EAST EARLY	Renewable Energy	Principles of Applied Engineering (1)		NCCER Electronic System Technician Level I	
		AC/DC Electronics (1)			
		Project-Based Research (1)*			
		Scientific Research and Design (1)* OR Solid State Electronics (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
EASTWOOD	Engineering	Principles of Applied Engineering (1)	OSHA 30 General	Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++	
		Engineering Design and Presentation I (1)*			
		Engineering Design and Problem Solving (1)*			
		Scientific Research and Design (1)*			
	Programming and Software Development	AP Computer Science Principles (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		Game Programming and Design (1)			
		AP Computer Science A (2)* OR Mobile Application Development (1)*			
		Independent Study in Technology Applications (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
ENGERGIZED FOR STEM	Renewable Energy	Foundations of Energy (1)		NCCER Electronic System Technician Level I	
		Introduction to Renewable Energy (1)			
		Environmental Sustainability (1) (PLTW)*			
		Practicum in Science, Technology, Engineering and Mathematics (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
ENERGY INSTITUTE	Advanced Manufacturing and Machinery Mechanics	Principles of Manufacturing (1)	Certified SOLIDWORKS Associate	NO, OSHA 30 General*	
		Robotics I (1) OR Manfacturing Engineering Technology I (1)			
		Robotics II (1)* OR Manufacturing Engineering Technology II (1)*			
		Practicum in Manufacturing (2)*			
	Engineering	Introduction to Engineering Design (1)	OSHA 30 General	Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++, Certified SOLIDWORKS Associate*	
		Engineering Science (1)*			
		Environmental Sustainability (1) (PLTW)*			
		Engineering Design and Problem Solving (1)* OR Practicum in STEM (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
FURR (Jordan Career Center)	Environmental and Natural Resources	Principles of Agriculture, Food and Natural Resources (1)	OSHA 30 General	Water Operators - Class D, Natural Resources Systems	(Cold Start)
		Wildlife, Fisheries, and Ecology Management (1)			
		Forestry and Woodland Ecosystems (1)			
		Scientific Research and Design (1)*			
	Graphic Design and Multimedia Arts	Principles of Arts, A/V Tech. and Communications (1)	Adobe Certified Associate Illustrator, Adobe Certified Associate Photoshop, Adobe Certified Associate Premiere Pro	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
		Digital Design and Media Production (1)			
		Digital Art and Animation (1)*			
		Career Preparation I (1)*			
	Healthcare Therapeutics	Principles of Health Science (1)	Certified Clinical Medical Assistant	Certified Clinical Medical Assistant	
		Medical Terminology (1)			
		Health Science Theory (1)*			
		Pathophysiology (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
HAIS	Entrepreneurship	Business Information Management I (1)	MOS Word, MOS Excel	Entrepreneurship and Small Business	
		Mobile Application Development (1)			
		Project Based Research (1)*			
		Practicum in Entrepreneurship (2)*^			
	Graphic Design and Multimedia Arts	Graphic Design and Illustration I (1)	Adobe Certified Associate Illustrator, Adobe Certified Associate Photoshop, Adobe Certified Expert Illustrator	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
		Video Game Programming (1)^			
		Advanced Video Game Programming (1)*^			
		Career Preparation (2)* OR Practicum in Entrepreneurship (2)*			
	Programming and Software Development	Computer Science I (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		AP Computer Science Principles (1)			
		Mobile Application Development (1)			
		Career Preparation (2)* OR Practicum in Entrepreneurship (2)*^			
	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) AutoCAD/+++, Autodesk Certified Professional in AutoCAD/+++,Certified SOLIDWORKS Associate*	
		Engineering Science (1)*			
		Engineering Design and Problem Solving (1)*			
		Scientific Research and Design (1)*			
	Government and Public Administration	Principles of Government and Public Administration (1)		NONE	ALTERNATE CCMR
		Political Science I (1)			
		Political Science II (1)*			
		Planning and Governance (1)* OR			
		Practicum in Local, State and Federal Government (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
HEIGHTS **(Jordan Career Center)**	**Graphic 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)*	Adobe Certified Associate Photoshop, Adobe Certified Expert Photoshop	YES, YES [Adobe Certified Professional in Visual Design Using Illustrator/Photoshop]	
	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)	Adobe Certified Associate Premiere Pro, Adobe Certified Expert Premiere Pro	YES [Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
	Accounting and Financial Services	Principles of Business and Marketing Finance (1) Accounting I (1) Accounting 2 (1) * Financial Mathematics (1) *	Intuit QuickBooks Certified User	YES	
	Business Management	Principles of Business and Marketing Finance (1) Business Information Management I (1) Business Information Management II (1) Business Management (1)*	MOS Word	YES*, MOS Word Expert	
	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)*	ASE Brakes Entry Level, ASE Refrigerant Recovery and Recycling	YES	
	Web Development	Web Game Development (1) * Web Design (1) * Independent Study In Technology Applications (1) * Project Based Research (1) *		NOCTI Web Design - Job Ready	(Cold Start)
	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1) Engineering Design and Presentation I (1) * Robotics I (1) Robotics II (1) *	OSHA 30 General	YES*	
	Healthcare Diagnostics	Principles of Health Science (1) Health Science Theory (1) * Anatomy and Physiology (1) * Practicum in Health Science (2) *	Certified EKG Technician, Patient Care Technician	YES	

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
HSLJ	Cybersecurity	Foundations of Cybersecurity (1)		Comp TIA A+/Network+/Security+	(DSA needed)
		Internetworking Technologies (1)^			
		TBD			
		TBD			
	Government and Public Administration	Principles of Government and Public Administration (1)	MOS Word	NONE	ALTERNATE CCMR
		Political Science I (1)			
		Political Science II (1)*			
		Revenue, Tax, and Regulation (1) *			
	Emergency Services	Principles of Law, Public Safety, Corrections and Security (1)	IAED Emergency Telecommunicator	YES	
		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)	Non-Commissioned Security Officer Level II	YES	
		Law Enforcement I (1)			
		Law Enforcement II (1)*			
		Forensic Science (1)			
	Legal Studies	Principles of Law, Public Safety, Corrections and Security (1)	MOS Excel	NONE	ALTERNATE CCMR
		Political Science I (1) OR Business Law (1)			
		Political Science II (1) * OR Political Science I (1)			
		Court Systems and Practices (1)			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
HSPVA	Digital Communications	Principles of Arts A/V Technology and Communication (1)		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
		Digital Communications in the 21st Century (1)			
		Audio/Video Production I (1)			
		Audio/Video Production II (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
HOUSTON MSTC **(Jordan Career Center)**	**Plumbing and Pipefitting**	Principles of Construction (1)	NCCER Core Level I	NO, NCCER Pipefitting Level I/Plumbing Level I, OSHA 30 Hour General OR Construction*	
		Plumbing Technology I (1)			
		Plumbing Technology II (2)*			
		Practicum in Construction Technology (2)*			
	Business Management	Business Information Management I (1)	MOS Word, MOS Excel	YES* [MOS Word Expert, MOS Excel Expert]	
		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)*			
	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1)	Adobe Certified Associate Photoshop	YES [Adobe Certified Professional in Visual Design Using Photoshop]	
		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)		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
		Audio/Video Production I (1)			
		Audio/Video Production II w/Lab (2)*			
		Practicum in Entrepreneurship (2)*^			
	Automotive	Principles of Transportation Systems (1)	ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	YES	
		Automotive Basics (1)			
		Automotive Technology I (2)*			
		Automotive Technology II (2)* OR Practicum in Transport. Systems (2)*			
	Networking Systems	Principles of Information Technology (1)	MTA Windows Operating System Fundamentals	CompTIA A+/Network+/Server+, Cisco CCNA *(200-301), Cisco 100-490 RSTECH	(DSA needed)
		Computer Maintenance w/ Lab (2)			
		Networking w/ Lab (2)*			
		Computer Technician Practicum (2)*			
	Drone (Unammed Flight)	Robotics I (1)		FAA Part 107 Remote Drone Pilot	
		Robotics II (2)*			
		Introduction to Unmanned Aerial Vehicles (1)^			
		Practicum in Manufacturing (2) *			
	Programming and Software Development	Fundamentals of Computer Science (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		Computer Science I (1)			
		Computer Sciece II (1)*			
		Computer Science III (1)*			
	Healthcare Diagnostics	Principles of Health Science (1)	Certified Clinical Medical Assistant	YES	
		Medical Terminology (1)			
		Health Science Theory* (1) AND Anatomy and Physiology* (1)			
		Practicum in Health Science (2)*			
	Cosmetology	Introduction to Cosmetology (1)	Cosmetology Operator License	YES	
		Cosmetology I (2)*			
		Nail Care, Enhancements and Spa Services (2)^			
		Cosmetology II (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
JONES	Architectural Design	Principles of Architecture (1)	Autodesk Certified Professional or User AutoCAD	YES, Autodesk Associate (Certified User) AutoCAD, Autodesk Certified Professional in AutoCAD for Design and Drafting	
		Architectural Design I (1)			
		Architectural Design II (2)*			
		Practicum in Architectural Design (2)*			
	HVAC and Sheet Metal (PTECH 22/23)	Principles of Construction (1)	OSHA 30 Hour General	YES* [OSHA 30 Hour General/Construction*, NCCER Core Level I/HVAC Level I, Refrigerant Handling EPA 608]	
		Heating, Ventilation, and Air Conditioning and Refr. Tech I (1)			
		Heating, Ventilation, and Air Conditioning and Refr. Tech II (2)			
		Practicum in Construction Technology (2)*			
	Healthcare Diagnostics	Principles of Health Science (1)	Phlebotomy Technician, Certified EKG Technician, Certified Clinical Medical Assistant	YES	
		Health Science Theory (1)*			
		Anatomy and Physiology (1)*			
		Practicum in Health Science (2)* OR			
		Medical Microbiology (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
Barbara Jordan Career Center	**Construction Management and Inspection**	CTE Options on Home Campus	NCCER Core Level I	YES	
		CTE Options on Home Campus			
		Construction Management I (2)			
		Construction Management II (2)*			
	Marketing and Sales	CTE Options on Home Campus	Entrepreneurship and Small Business	YES	
		CTE Options on Home Campus			
		Retail Management (1)* AND			
		Entrepreneurship (1)			
		Advanced Marketing (2)*			
	Culinary Arts	CTE Options on Home Campus	ServSafe Manager	YES	
		CTE Options on Home Campus			
		Culinary Arts (2)			
		Advanced Culinary Arts (2)*			
	Automotive	CTE Options on Home Campus	ASE Refrigerant Recovery and Recycling, ASE Maintenance and Light Repair Entry Level (plus level 1 workforce certificates via college)	YES	
		CTE Options on Home Campus			
		Automotive Technology I DCH (2)*			
		Automotive Technology II DCH (2)*			
	Architectural Design	CTE Options on Home Campus		Autodesk Associate (Certified User) AutoCAD	
		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		NCCER Core Level I, NCCER Electrical Level I, OSHA 30 Hour General*	
		CTE Options on Home Campus			
		Principles of Construction (1) AND Electrical Technology I (1)			
		Electrical Technology II (2)*			
	Refining & Chemical Processes	CTE Options on Home Campus		NCCER Instrumentation Level I	
		CTE Options on Home Campus			
		Principles of Applied Engineering (1) AND Applied Mathematics for Technical Professionals (1)*			
		Introduction to Process Tecnnology (1) AND Petrochemical Safety, Health, and Environment (1)*			
	Welding	CTE Options on Home Campus	NCCER Welding Level I	YES [NCCER Core Level I, NCCER Welding Level I. AWS Sense]	
		CTE Options on Home Campus			
		Welding I (2) DCH			
		Welding II (2)* DCH			
	Teaching and Training	CTE Options on Home Campus	Educational Aide I	YES	
		CTE Options on Home Campus			
		Principles of Education and Training (1) AND Child Development (1)			
		Instructional Practices (2)*			
	Cosmetology	CTE Options on Home Campus	Cosmetology Operator's License	YES	
		CTE Options on Home Campus			
		Cosmetology I (2)* AND			
		Nail Care, Enhancements and Spa Services (1)^			
		Cosmetology II (2)* AND Principles of Cosmetology Design and Color Theory (1)			
	Government and Public Administration	CTE Options on Home Campus		NONE	
		CTE Options on Home Campus			
		Political Science I (1) AND			
		Planning and Governance (1)*			
		Political Science II (1)* AND			
		Public Management and Administration (1)*			
	Healthcare Diagnostics	CTE Options on Home Campus	Certified Clinical Medical Assistant	YES	
		CTE Options on Home Campus			
		Principles of Health Science (1) AND			
		Health Science Theory (1)*			
		Practicum in Health Science (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
KASHMERE	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
		Graphic Design and Illustration I (1)			
		Animation I (1)			
		Animation II (1)*			
	Graphic Design and Multimedia Arts (Futures)	Principles of Arts, A/V Technology and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
		Graphic Design and Illustration DCH (1)			
		Animation I DCH (1)			
		Practicum in Graphic Design and Illustration DCH (2)*			
	Entrepreneurship	Business Information Management I (1)	MOS Word	Entrepreneurship and Small Business	
		Entrepreneurship I (1)			
		Entrepreneurship II (1)^			
		Practicum In Entrepreneurship (2)*^			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
LAMAR	**Graohic 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)	Adobe Certified Associate Photoshop	YES [Adobe Certified Professional in Visual Design Using Photoshop]	
	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)	Adobe Certified Associate Premiere Pro	YES [Adobe Certified Professional in Digital Video Using Adobe Premiere Pro], Adobe Certified Professional in Visual Design Using Photoshop	
	Accounting and Financial Services	Principles of Business, Marketing and Finance (1) Money Matters (1) Accounting I (1) Accounting II (2)*	MOS Excel Expert, Quickbooks Certified User	YES	
	Business Management	Principles of Business, Marketing and Finance (1) Business Information Management I (1) Business Management (1)* Practicum of Business Management (2)* OR Global Business (0.5) * AND Human Resources Management (0.5)*	Entrepreneurship and Small Business, MOS Word, MOS Expert Word	YES [MOS Word Expert]	
	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)*		ServSafe Manager	
	Lodging and Resort Management	Principles of Hospitality and Tourism (1) Hotel Management (1) Travel and Tourism (1) Hospitality Services (2)* OR Practicum in Hospitality Services (2)*		Certified Hospitality and Tourism Professional	
	Animal Science	Principles of Agriculture, Food and Natural Resources (1) Livestock Production (1)* Veterinary Medical Applications (1)* OR Equine Science (0.5) AND Small Animal Management (0.5) Advanced Animal Science (1)* OR Practicum in Agriculture, Food, and Natural Resources (2)*	Certified Veterinary Assistant Level 1	YES	
	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)*	Texas State Floral Association Floral Skills Knowledge Based	YES [TSFA Level 1 Floral Certification]	
	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)*	Autodesk Certified Professional or User AutoCAD	YES	
	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)*		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
	Exercise Science and Wellness	Principles of Exercise Science and Wellness (1)^ Kinesiology I (1)^ Kinesiology II (1)^ Practicum in Entrepreneurship (2)*^		Certified Personal Trainer, Pre-Professional Certification in Nutrition, Food, Wellness	(Cold Start)
	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)*	OSHA 30 General	Child Development Associate	

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
LIBERTY	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology, and Communications (1)		Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator	
		Graphic Design and Illustration I (1)			
		Graphic Design and Illustration II (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
LONG ACADEMY	Biomedical Science	Principles of Biosciences (1)		Medical Laboratory Assistant, Medical Laboratory Technician	(Cold Start)
		Biotechnology I (1)			
		Pathophysiology (1)*			
		NONE			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
MADISON	Networking Systems	Principles of Information Technology (1)		CompTIA A+/Network+/Server+, Cisco CCNA *(200-301), Cisco 100-490 RSTECH	(DSA needed)
		Internetworking Technologies I (1)^			
		Internetworking Technologies II (1) *^			
		Career Preparation I (2)*			
	Automotive	Principles of Transportation Systems (1)		ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	
		Energy and Power of Transportation Systems (1)*			
		Automotive Technology I: Maintenance and Light Repair (2)*			
		Automotive Technology II: Automotive Service (2)*			
	Animal Science	Principles of Agriculture, Food and Natural Resources (1)		Certified Veterinary Assistant Level 1, Elanco Fundamentals of Animal Science, Licensed Veterinary Technician	
		Livestock Production (1)*			
		Veterinary Medical Applications (1)*			
		Advanced Animal Science (1)*			
	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1)		OSHA 30 General*	
		Robotics I (1)			
		Engineering Design and Presentation I (1)*			
		Robotics II (1)*			
	Welding	Introduction to Welding (1)		NCCER Core Level I, NCCER Welding Level I	
		Welding I (2)			
		Welding II (2)*			
		Practicum in Manufacturing (2)*			
	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
		Engineering Design and Presentation I (1)*			
		Engineering Design and Presentation II (2)*			
		Engineering Design and Problem Solving (1)*			
	Healthcare Diagnostics	Principles of Health Science (1)		Certified Clinical Medical Assistant	
		Health Science Theory (1)*			
		Anatomy and Physiology (1)*			
		Practicum in Health Science (2)*			
	Cosmetology	Introduction to Cosmetology (1)		Cosmetology Operator License	
		Principles of Cosmetology Design and Color (1)			
		Cosmetology I (2)*			
		Cosmetology II (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
MICKEY LELAND CPA	Graphic Design and Multimedia Arts	Digital Media (1)	Adobe Certified Associate Photoshop	Adobe Certified Professional in Graphic Design Using Photoshop	
		Digital Design and Media Production (1)			
		Career Preparation I (2)*			
		NONE			
	Programming and Software Development	Fundamentals of Computer Science (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		AP Computer Science Principles (1)			
		AP Computer Science A (1)*			
		Career Preparation I (2) *			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
MIDDLE COLLEGE HS at HCC GULFTON	Programming and Software Development	Fundamentals of Computer Science (1)	MOS Word	NO, Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		Computer Science I (1)			
		Computer Science II (1)*			
		Mobile Application Development (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
MIDDLE COLLEGE HS at HCC FRAGA	Marketing and Sales	Principles of Business, Marketing, and Finance (1)	MOS Word, MOS Word Expert	NO, NO, Entrepreneurship and Small Business	
		Virtual Business (0.5) AND Advertising (0.5)*			
		Retail Management (1)*^ AND Marketing (1)			
		Career Preparation I (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
MILBY	Carpentry	CTE Options on Home Campus	NCCER Core Level I, OSHA 30 Construction*	YES, NO* (NCCER Carpentry Level I)	
		CTE Options on Home Campus			
		Construction Technology I (2)			
		Construction Technology II (2)*			
	HVAC and Sheet Metal	Principles of Construction (1)		NCCER Core Level I, NCCER HVAC Level I, Refrigerant Handling EPA 608	
		HVAC and Refrigeration Technology I (1)			
		HVAC and Refrigeration I Technology II (2)*			
	Culinary Arts	Introduction to Culinary Arts (1)	ServSafe Manager	ServSafe Manager	
		Foundations of Restaurant Management (1)			
		Culinary Arts (2)			
		Advanced Culinary Arts (2)*			
	Welding	Introduction to Welding (1)	AWE Sense Welding Level I	AWE Sense Welding Level I	
		Welding I (2)			
		Welding II (2)*			
		NONE			
	Cybersecurity	Fundamentals of Computer Science (1)	MTA Introduction to Programming Using Python	Comp TIA A+/Network+/Security+	(DSA needed)
		AP Computer Science Principles (1)			
		Computer Science I (1)			
		Cybersecurity Capstone (2)*^			
	Engineering	Principles of Applied Engineering (1)	OSHA 30 General	Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
		Engineering Design and Presentation I (1)*			
		Engineering Design and Presentation II (2)*			
		Engineering Design and Problem Solving (1)*			
	Healthcare Diagnostics	Principles of Health Science (1)	Clinical Medical Assistant	YES, Pharmacy Technician	
		Medical Terminology (1)			
		Health Science Theory with Clinical (2)*			
		Practicum in Health Science (2)*			
	Cosmetology	Introduction to Cosmetology (1)		Cosmetology Operator License	
		Principles of Cosmetology Design and Color Theory (1)			
		Cosmetology I (2) * OR Nail Care, Enhancements, and Spa Svcs (1)^			
		Cosmetology II (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
MOUNT CARMEL ACADEMY	Health Informatics	Medical Terminology (1)		Medical Billing and Coding Specialist	
		Business Information Management I (1)			
		Health Informatics (1)*			
		NONE			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
NORTH HOUSTON ECHS	Entrepreneurship	Principles of Business, Marketing and Finance (1)	Entrepreneurship and Small Business, MOS Word	YES, NO	
		Entrepreneurship (1)			
		Entrepreneurship II (1)^			
		Project Based Research (1)* OR Practicum in Entrepreneurship (2)*			
	Government and Public Administration	Principles of Government and Public Administration (1)		NONE	ALTERNATE CCMR
		Political Science I (1)			
		Dimensions of Diplomacy (1)*^			
		TBD			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
NORTH FOREST	HVAC and Sheet Metal (DCH)	Principles of Construction (1)	Refrigerant Handling EPA 608 [25 current seniors]	YES (NCCER Core Level 1)	
		HVAC and Refrigeration Technology I (1)			
		HVAC and Refrigeration Technology II (2)*			
		Practicum in Construction Technology (2)*			
	Networking Systems	Principles of Information Technology (1)	MOS Word/Excel	NO (Cisco 100-490/200-301, CompTIA Network+)	(DSA needed)
		Internetworking Technologies I (1)			
		Internetworking Technologies II (1)*			
		Career Preparation I (2)*			
	Automotive	Principles of Transportations Systems (1)	ASE Maintenance Light and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	YES	
		Energy, Power and Transportation Systems (1)			
		Automotive Basics (1)			
		Career Preparation I (2)*			
	Animal Science	Principles of Agriculture, Food and Natural Resources (1)	OSHA 30 General, Certified Veterinary Assistant	(NO) YES [Elanco Animal Science Cert]	
		Livestock Production (1)*			
		Veterinary Medical Applications (1)*			
		Practicum in Agriculture, Food and Natural Resources (2)*			
	Emergency Services	Principles of Law, Public Safety, Corrections and Security (1)	OSHA 30 General	NO (OSHA Hazardous Waste Operations and Emergency Response*, IAED Emergency Telecommunicator)	
		Disaster Response (1)^			
		Firefighter I (2)*			
		Anatomy and Physiology (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
NORTHSIDE	Digital Communications	Principles of Arts, A/V Technology And Communications (1)		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Visual Design Using Photoshop,	
		Audio/ Video Production I (1)			
		Audio/ Video Production II (1)*			
		Practicum in Audio/ Video Production (2)*			
	Graphic Design and Multimedia Arts	Principles of Arts, A/V Technology And Communications (1)	Adobe Certified Associate Photoshop	YES	
		Digital Media (1) OR Graphic Design and Illustration I (1)			
		Graphic Design and Illust. I DCH (2) OR Graphic Design and Illust. II (2)			
		Graphic Design and Illust. II DCH (2)* OR Practicum in Audio/ Video Production (2)*			
	Culinary Arts	Principles of Hospitality and Tourism (1)		ServSafe Manager	
		Introduction to Culinary Arts (1)			
		Culinary Arts (2)			
		Practicum in Culinary Arts (2)*			
	Lodging and Resort Management	Principles of Hospitality and Tourism (1)	Certified Hospitality and Tourism Management Professional	YES	
		Hotel Management (1)			
		Hospitality Services (2)*			
		Practicum in Hospitality Services (2)*			
	Cybersecurity	Principles of Information Technology (1)		Comp TIA A+/Network+/Security+	(DSA needed)
		Internetworking Technologies (1)^			
		Networking (1)*			
		Practicum in Information Technology (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
SCARBOROUGH	**HVAC and Sheet Metal**	Principles of Construction (1)	Refrigerant Handling EPA 608, OSHA 30 Construction	YES, NO, NCCER Core Level I, NCCER HVAC Level I	
		HVAC and Refrigeration Technology I (1)			
		HVAC and Refrigeration Technology II (2)*			
		Practicum in Construction Technology (2)*			
	Business Management	Principles of Business, Marketing and Finance (1)		MOS Word Expert, MOS Excel Expert, Entrepreneurship and Small Business	
		Business Information Management I (1)			
		Business Management (1)*			
		Practicum in Business Management (2)*			
	Teaching and Training	Principles of Education and Training (1)	Educational Aide I	YES	
		Human Growth and Development (1)			
		Instructional Practices (2)*			
		Practicum in Education and Training (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
SHARPSTOWN	Plant Science	Principles of Agriculture, Food, and Natural Resources (1)		TSFA Level 1 Floral Certification	
		Horticultural Science (1)*			
		Floral Design I (1)*			
		Advanced Floral Design (1)*^ OR Advanced Plant and Soil Science (1)*			
	Graphic Design and Multimedia Arts	Digital Media (1) OR Video Game Design (1)		Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator	
		Animation I (1)			
		Animation II (1)*			
		Practicum in Audio/Video Production (2)*			
	Digital Communications	Principles of Arts, A/V Technology and Communications (1)		Adobe Certified Professional in Digital Video Using Adobe Premiere Pro, Adobe Certified Professional in Visual Design Using Photoshop,	
		Audio/Video Production I (1)			
		Audio/Video Production II (1)*			
		Practicum in Audio/Video Production (2)* OR Practicum in Entrepreneurship (2)*^			
	Healthcare Diagnostics	Principles of Health Science (1)	Clinical Medical Assistant, Medical Billing and Coding	YES, NO	
		Medical Terminology (1)			
		Health Science Theory (1)*			
		Anatomy and Physiology (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
SHARPSTOWN INTERNATIONAL	Graphic Design and Multimedia Arts	Principles of Arts, AV Technology and Communications (1)	Adobe Certified Associate Illustrator	YES [Adobe Certified Professional in Graphic Design Using Photoshop]	
		Graphic Design and Illustration I (1)			
		Graphic Design and Illustration II (1)*			
		Digital Art and Animation (1)*			
	Entrepreneurship	Business Information Management I (1)		Entrepreneurship and Small Business	
		Entrepreneurship I (1)			
		Entrepreneurship II (1)*			
		Project-Based Research (1)*			
	Advanced Manufacturing and Machinery Mechanics	Principles of Applied Engineering (1)		OSHA 30 General*	
		Manufacturing Engineering Technology I (1)			
		Engineering Design and Presentation I (1)*			
		Career Preparation I (2)*			
	Programming and Software Development	Computer Science I (1)		Certified Entry-Level Python Programmer (PCEP)	(DSA needed)
		AP Computer Science Principles (1)			
		IB Computer Science SL1 (1)*			
		IB Computer Science HL1 (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
SOUTH EARLY COLLEGE HS	**Business Management**	Business Information Management I (1)		MOS Word Expert, MOS Excel Expert, Entrepreneurship and Small Business	
		Business Information Management II (1)			
		Business Management (1)*			
		Statistics and Business Decision Making (1)*			
	Engineering	Engineering Essentials (1) (PLTW)^		Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
		Introduction to Engineering Design (PLTW) (1)^			
		Engineering Science (1)*			
		Civil Engineering and Architecture (PLTW) (1)*^			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
STERLING	**Business Management**	Business Information Management I (1)	MOS Word, MOS Word Expert, MOS Excel, MOS Excel Expert	NO*, YES, NO*, YES	
		Business Information Management II (1)			
		Business Management (1)*			
		Practicum in Business Management (2)* OR Career Prep I (2)*			
	Welding	Introduction to Welding (1)	NCCER Welding Level I, NCCER Core Level I	YES	
		Welding I (2)			
		Welding II (2)*			
		Practicum in Manufacturing (2)*			
	Automotive	Principles of Transportation Systems (1)	ASE Painting and Refinishing Entry Level, ASE Refrigerant Recovery and Recycling	YES	
		Automotive Technology I: Maintenance and Light Repair (2)*			
		Automotive Technology II: Automotive Services (2)*			
	Aviation Maintenance	Introduction to Aircraft Technology (1)	FAA 107 Remote Drone Pilot	NO, Aerospace Manufacturing Certification, OSHA 30 General*	(Cold Start AMC)
		Aircraft Airframe Technology (2)*			
		Aircraft Powerplant Technology (2)*			
		Practicum in Transportation Systems (2)*			
	Law Enforcement	Principles of Law, Public Safety, Corrections and Security (1)	Non-commissioned Security Officer Level II	YES	
		Law Enforcement I (1)			
		Law Enforcement II (1)*			
		Practicum in Law, Public Safety, Corrections and Security (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WALTRIP	Graphic Design and Multimedia Arts	Digital Media (1)	Adobe Certified Associate Photoshop	YES	
		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)	Adobe Certified Associate Premiere Pro	YES	
		Audio/Video Production I (1)			
		Audio/Video Production II (1)*			
		Practicum in Audio/Video Production (2)*			
	Business Management	Principles of Business, Marketing, and Finance (1)	MOS Word, MOS Word Expert, MOS Excel, MOS Excel Expert	NO*, YES, NO*, YES	
		Business Information Management I (1)			
		Business Information Management II (1)			
		Practicum in Business Management (2)* OR Career Preparation I (2)*			
	Automotive	Principles of Transportation Systems (1)	ASE Refrigerant Recovery and Recycling	ASE Maintenance Light and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling	
		Energy and Power of Transportation Systems (1) *			
		Automotive Technology I: Maintenance and Light Repair (2) *			
	Information Technology Support and Services	Principles of Information Technology (1)		CompTIA A+, CompTIA Fundamentals+	(DSA needed)
		Geographic Information Systems (1)^ *			
		Raster Based Geographic Information Systems (1)^			
		Practicum in Information Technology (2)*			
	Engineering	Principles of Applied Engineering (1)	Certified SOLIDWORKS Associate	Autodesk Associate (Certified User) Inventor for Mechanical Design, Certified SOLIDWORKS Associate*	
		Manufacturing Engineering Technology (1)			
		Engineering Design and Presentation I (1) *			
		Practicum in Science, Technology, Engineering and Mathematics (2)*			
	Healthcare Therapeutics	Principles of Health Science (1)		Certified Clinical Medical Assistant	
		Medical Terminology (1)			
		Health Science Theory (1)*			
		Pharmacology (1) *			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WASHINGTON	Animal Science	Principles of Agriculture, Food and Natural Resources (1)	NONE	Certified Veterinary Assistant, Elanco Animal Science Certification	
		Livestock Production (1)*			
		Veterinary Medical Applications (1)*			
		Advanced Animal Science (1)*			
	Carpentry	Principles of Construction (1)	NCCER Core Level I	YES	
		Construction Technology I (2)			
		Construction Technology II (2)*			
		Practicum in Construction Technology (2)*			
	Networking Systems	Principles of Information Technology (1)	MTA Networking Fundamentals	NO (Cisco 100-490/200-301, CompTIA Network+)	(DSA needed)
		Computer Maintenance (1)			
		Networking (1)			
		Advanced Cloud Computing (1)*^			
	Engineering	Principles of Applied Engineering (1)	Certified SOLIDWORKS Associate, FAA Part 107 Remote Drone Pilot	YES, NO	
		Engineering Design and Presentation I (1)*			
		Engineering Design and Problem Solving (1)*			
		Practicum in STEM (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WESTBURY	Business Management	Principles of Business Marketing and Finance (1)	MOS Word, MOS Excel	YES*, YES*, MOS Word Expert, MOS Excel Expert	
		Business Information Management I (1)			
		Business Information Management II (1)			
		Practicum in Business Management (2)* OR Business Management (1)*			
	Web Development	Principles of Information Technology (1)	MTA Introduction to Programming Using HTML and CSS, Unity Certified Programmer	(discontinued), NOCTI Web Design, CWMADA	(Cold Start)
		Web Design (1)*			
		Web Game Development (1)*			
		Project Based Research (1)*			
	Automotive	Principles of Transportation Systems (1)	ASE Brakes Entry Level, ASE Electrical/Electronic Systems Entry Level, ASE HVAC Entry Level, ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling, ASE Suspension and Steering Entry Level	ASE Brakes Entry Level, ASE Electrical/Electronic Systems Entry Level, ASE HVAC Entry Level, ASE Maintenance and Light Repair Entry Level, ASE Refrigerant Recovery and Recycling, ASE Suspension and Steering Entry Level	
		Automotive Basics (1)			
		Automotive Technology I: Maintenance and Light Repair (2)*			
		Automotive Technology II: Automotive Service (2)* OR Practicum in Transportation Systems (2)*			
	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
		Introduction to Engineering and Design PLTW (1)^			
		Computer Integrated Manufacturing PLTW (1)^ *			
		Engineering Design and Problem Solving (1)*			
	Emergency Services	Principles of Law, Public Safety, Corrections, and Security (1)		OSHA Hazardous Waste and Emergency Response*	
		Disaster Response (1)^			
		Firefighter I (2)*			
		Emergency Medical Technician - Basic (2)^ *			
	Healthcare Diagnostics	Principles of Health Science (1)	Clinical Medical Assistant	Clinical Medical Assistant	
		Health Science Theory (1)*			
		Anatomy and Physiology (1) *			
		Practicum in Health Science (2)* OR Pathophysiology (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WESTSIDE	**Environmental and Natural Resources**	Principles of Agriculture, Food, and Natural Resources (1)		Water Operators - Class D, Natural Resources Systems	(DSA needed)
		Range Ecology and Management (1)*			
		Project Based Research (1)*			
		Scientific Research and Design (1)*			
	Graphic Design and Multimedia Arts (1)	Principles of Arts, A/V Tech and Communications (1)		Adobe Certified Professional in Visual Effects Using After Effects	
		Animation I (1)			
		Animation II w/Lab (2)*			
		Practicum in Animation (2)*			
	Graphic Design and Multimedia Arts (2)	Principles of Arts, A/V Tech and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
		Graphic Design and Illustration I (1)			
		Graphic Design and Illustration II (1)*			
		Practicum in Graphic Design and Illustration (2)*			
	Digital Communications	Principles of Arts, A/V Tech and Communications (1)		Adobe Certified Associate Premiere Pro	
		Audio/Video Production I (1)			
		Audio/Video Production II (1)*			
		Practicum in Audio/Video Production (2)*			
	Accounting and Financial Services	Principles of Business Marketing and Finance (1)	Quickbooks Certified User	YES (Intuit Quickbooks Certified User)	
		Financial Mathematics (1)* OR Business Information Management (1)			
		Accounting I (1)			
		Practicum in Business Management (2)* OR Career Preparation I (2)*			
	Business Management	Principles of Business, Marketing and Finance (1)	MOS Word	YES*, MOS Word Expert	
		Business Information Management I (1)			
		Business Law (1) OR Global Business (0.5) * AND Virtual Business (0.5)			
		Practicum in Business Management (2)* OR Business Management (1)*			
	Culinary Arts	Introduction to Culinary Arts (1)		ServSafe Manager	
		Culinary Arts (2)			
		Advanced Culinary Arts (2)*			
		Practicum in Culinary Arts (2)*			
	Programming and Software Development	Fundamentals of Computer Science (1)	MTA Introduction to Programming Using Java	C++ Certified Assicate Programmer, Certified Entry-Level Python Programmer, Certified Profressional Programmer	(DSA needed Python)
		Computer Science I (1)			
		Computer Science II (1)* OR AP Computer Science Principles (1)			
		Practicum in Information Technology (2)* OR AP Computer Science A (2) *			
	Engineering (PLTW)	Introduction to Engineering Design (1) (PLTW)^		Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
		Computer Integrated Manufacturing (1) (PLTW)^ *			
		Digital Electronics (1)*			
		Engineering Design and Problem Solving (1)*			
	Legal Studies	Political Science I (1)		NONE	ALTERNATE CCMR
		Political Science II (1)*			
		Business Law (1)			
		Project Based Research (1)*			
	Healthcare Diagnostics	Principles of Health Science (1)	Clinical Medical Assistant, Pharmacy Technician	YES, YES	
		Medical Terminology (1)			
		Anatomy and Physiology (1)* AND Health Science Theory (1)*			
		Practicum in Health Science (2)* OR Pharmacology (1)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WHEATLEY	**Graphic Design and Multimedia Arts**	Principles of Arts, A/V Technology, and Communications (1)	NONE	Adobe Certified Professional in Visual Effects Using After Effects	
		Animation I (1)			
		Animation II (1)*			
		Career Preparation I (2)*			
	Culinary Arts	Principles of Hospitality and Tourism (1)	ServSafe Manager	YES	
		Introduction to Culinary Arts (1)			
		Culinary Arts (2)			
		Advanced Culinary Arts (2)*			
	Web Development	Principles of Information Technology (1)	NONE	NOCTI Web Design, CWMADA	(DSA needed)
		Project Based Research (1)*			
		Career Preparation I (2)*			
		(none)			
	Automotive	Principles of Transportation Systems (1)	ASE Automotive Service Technology, ASE Brakes, ASE Electrical/Electronic Systems, ASE Engine Performance, ASE Maintenance and Light Repair, ASE Manual Drivetrain, ASE Refrigerant, ASE Suspension and Steering	YES	
		Automotive Basics (1)			
		Automotive Technology I: Maintenance and Light Repair (2)*			
		Practicum in Transportation Systems (2)*			
	Government and Public Administration	Principles of Government and Public Administration (1)	MOS Word	**NONE**	ALTERNATE CCMR
		Dimensions of Diplomacy (1)*^			
		Planning and Governance (1)*			
		Prac. in Local, State and Federal Govt (2)* OR Public Mgmt. (1)*			
	Early Learning (PTECH)	Principles of Education and Training (1)	NONE (phase-in)	Child Development Associate	
		Child Development (1)			
		Child Guidance (2)*			
		Career Preparation I (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WISDOM	Carpentry	Principles of Construction (1)	NCCER Core Level I	YES, NCCER Carpentry Level I	
		Construction Technology I (2)			
		Mill and Cabinetmaking Technology (2)*			
	Business Management	Principles of Business, Marketing and Finance (1)	MOS Word, MOS Word Expert	YES*, YES	
		Business Information Management I (1)			
		Business Information Management II (1)* OR			
		Human Resource Management (0.5)* AND Global Business (0.5)*			
		Practicum in Business Management (2)*			
	Welding	Introduction to Welding (1)	NCCER Core Level I	YES, NCCER Welding Level I	
		Welding I (2)			
		Welding II (2)*			
	Engineering	Principles of Applied Engineering (1)	OSHA 30 General	Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
		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)		C++ Certified Assicate Programmer, Certified Entry-Level Python Programmer, Certified Profressional Programmer	(Cold Start / DSA needed Python)
		Computer Science I (1)			
		Computer Science II (1)*			
		Practicum in Information Technology (2)*			
	Early Learning	Principles of Education and Training (1)		Child Development Associate	
		Child Development (1)			
		Child Guidance (2)*			
		Practicum in Education and Training (2)*			
	Teaching and Training	Principles of Education and Training (1)	Educational Aide I	YES	
		Child Development (1)			
		Instructional Practices (2)*			
		Practicum in Education and Training (2)*			
	Law Enforcement	Principles of Law, Public Safety, Corrections and Security (1)	Non-commisioned Security Officer Level II	YES	
		Law Enforcement I (1)			
		Correctional Services (1)*			
		Federal Law Enforcement and Protective Services (1)			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
WORTHING	Animal Science	Principles of Agriculture, Food and Natural Resources (1)	OSHA 30 General	NO [Certified Veterinary Assistant, Elanco Animal Science Certification]	
		Livestock Production (1)*			
		Small Animal Management (0.5) OR Equine Science (0.5)			
		Practicum of Agriculture, Food and Natural Resources (2)*			
	Lodging and Resort Management	Principles of Hospitality and Tourism (1)		Certified Hospitality and Tourism Professional	
		Hotel Management (1)			
		Travel and Tourism Management (1)			
		Practicum in Hospitality Services (2)*			
	Web Development	Principles of Information Technology (1)	MTA HTML5 App Development Fundamentals	NOCTI Web Design, CWMADA	(Cold Start)
		Project Based Research (1)*			
		Web Design (1)*			
		Web Game Development (1)*			
	Teaching and Training	Principles of Education and Training (1)	Educational Aide I	YES	
		Human Growth and Development (1)			
		Instructional Practices (2)*			
		Practicum in Education and Training (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
YATES	Graphic Design and Multimedia Arts	Principles of Arts, Audio/Video Technology, and Communications (1)		Adobe Certified Professional in Visual Design Using Photoshop	
		Digital Media (1)			
		Commercial Photography I (1)			
		Commercial Photography II (1)*			
	Digital Communications (1)	Principles of Arts, Audio/Video Technology, and Communications (1)		Adobe Certified Associate Premiere Pro	
		Professional Communications (0.5) AND Web Communications (0.5)			
		Digital Audio Technology I (1)			
		Digital Audio Technology II (1)*			
	Digital Communications (2)	Principles of Arts, Audio/Video Technology, and Communications (1)		Adobe Certified Associate Premiere Pro	
		Audio/Video Production I (1)			
		Audio/Video Production II (2)*			
		Practicum in Audio/Video Production (2)*			
	Entrepreneurship	Principles of Business, Marketing, and Finance (1)		Entrepreneurship and Small Business	
		Business Information Management I			
		Entrepreneurship (1)			
		Practicum in Entrepreneurship (2)*^			
	Distribution and Logistics	Principles of Distribution and Logistics (1)		NCCER Core Level I, MSSC Certified Logistics Technician, OSHA 30 General*	
		Management of Transportation Systems (1)			
		Distribution and Logistics (1) *			
		Practicum in Distribution and Logistics (2)*			

Campus	Program of Study	2022-2023 CTE Course Sequence (credit value)	Industry Based Certification Types Earned - 21/22	Program of Study Alignment 22/23	Implementation
YWCPA	Biomedical Science	Principles of Biosciences (1)		Medical Laboratory Assistant, Medical Laboratory Technician	(Cold Start)
		Biotechnology I (1)			
		Biotechnology II (1)*			
		Practicum in STEM (2) * OR Scientific Research and Design (1)*			
	Engineering	Principles of Applied Engineering (1)		Autodesk Associate (Certified User) Inventor for Mechanical Design, Autodes Associate (Certified User) AutoCAD	
		Engineering Design and Presentation I (1)*			
		Engineering Design and Presentation II (2)*			
		Engineering Science (1)* OR Practicum in STEM (2)*			
	Programming and Software Development	AP Computer Science Principles (1)	MOS Word, MOS Excel	NO, NO [C++ Certified Assicate Programmer, Certified Entry-Level Python Programmer, Certified Profressional Programmer]	(Cold Start / DSA needed Python)
		Computer Science I (1)*			
		Game Programming and Design (1)*			
		Career Preparation I (2)*			

Carpentry
Business Management
Distribution and Logistics
Maritime Science
Networking Systems
Web Development
Welding
Engineering
Teaching and Training

Teaching and Training

Graphic Design and Multimedia Arts

Business Management

Accounting and Financial Services

Marketing and Sales

Distribution and Logistics

Animal Science

Plant Science

Programming and Software Development (1)

Programming and Software Development (2)

Family and Community Services

Environmental and Natural Resources

Graphic Design and Multimedia Arts

Digital Communications

Animal Science

Plant Science

Engineering

Renewable Energy

Renewable Energy

Emergency Services (1)

Emergency Services (2)

Healthcare Therapeutic

Healthcare Diagnostics

Healthcare Therapeutic

Renewable Energy

Engineering

Programming and Software Development

Advanced Manufacturing and Machinery Mechanics
Engineering
Environmental and Natural Resources
Graphic Design and Multimedia Arts
Healthcare Therapeutics
Entrepreneurship
Graphic Design and Multimedia Arts
Programming and Software Development
Engineering

Engineering

Government and Public Administration

Graphic Design and Multimedia Arts

Digital Communications

Accounting and Financial Services

Business Management

Automotive

Web Development

Advanced Manufacturing and Machinery Mechanics

Healthcare Diagnostics

Cybersecurity

Government and Public Administration

Emergency Services

Law Enforcement

Legal Studies

Digital Communications

Plumbing and Pipefitting

Business Management

Business Management

Graphic Design and Multimedia Arts

Digital Communications

Automotive

Networking Systems

Drone (Unammed Flight)

Programming and Software Development

Healthcare Diagnostics

Cosmetology

Architectural Design

HVAC and Sheet Metal (PTECH 22/23)

Healthcare Diagnostics

Construction Management and Inspection

Marketing and Sales

Culinary Arts

Automotive

Architectural Design

Electrical

Electrical

Refining & Chemical Processes

Welding

Teaching and Training

Cosmetology

Government and Public Administration

Healthcare Diagnostics

Graphic Design and Multimedia Arts

Graphic Design and Multimedia Arts (Futures)

Entrepreneurship

Graohic Design and Multimedia Arts

Digital Communications

Accounting and Financial Services

Business Management

Culinary Arts

Lodging and Resort Management

Animal Science

Plant Science

Plant Science

Engineering

Programming and Software Development

Exercise Science and Wellness

Family and Community Services

Graphic Design and Multimedia Arts

Biomedical Science

Networking Systems

Automotive

Animal Science
Advanced Manufacturing and Machinery Mechanics
Welding
Engineering
Healthcare Diagnostics
Cosmetology
Programming and Software Development
Programming and Software Development

Marketing and Sales
Carpentry
HVAC and Sheet Metal
Culinary Arts
Welding
Cybersecurity
Engineering
Healthcare Diagnostics
Cosmetology
Health Informatics

Health Informatics

Entrepreneurship

Government and Public Administration

HVAC and Sheet Metal (DCH)

Networking Systems

Automotive

Animal Science

Emergency Services

Digital Communications

Graphic Design and Multimedia Arts

Culinary Arts

Lodging and Resort Management

Cybersecurity

HVAC and Sheet Metal

Business Management

Teaching and Training

Plant Science

Graphic Design and Multimedia Arts

Graphic Design and Multimedia Arts

Digital Communications

Healthcare Diagnostics

Graphic Design and Multimedia Arts

Entrepreneurship

Advanced Manufacturing and Machinery Mechanics

Programming and Software Development

Business Management

Engineering

Business Management
Welding
Automotive
Aviation Maintenance
Law Enforcement
Graphic Design and Multimedia Arts
Digital Communications
Business Management
Automotive

Information Technology Support and Services
Engineering
Healthcare Therapeutics
Animal Science
Plant Science
Carpentry
Networking Systems
Engineering
Business Management

Business Management

Web Development

Automotive

Engineering

Emergency Services

Healthcare Diagnostics

Environmental and Natural Resources

Graphic Design and Multimedia Arts (1)

Graphic Design and Multimedia Arts (2)

Digital Communications

Accounting and Financial Services

Business Management

Culinary Arts

Programming and Software Development

Engineering (PLTW)

Legal Studies

Healthcare Diagnostics

Graphic Design and Multimedia Arts

Graphic Design and Multimedia Arts

Culinary Arts

Web Development

Automotive

Government and Public Administration

Early Learning (PTECH)

Carpentry

Business Management

Welding

Engineering

Engineering

Programming and Software Development

Early Learning

Teaching and Training

Law Enforcement

Animal Science

Lodging and Resort Management

Web Development

Teaching and Training

Graphic Design and Multimedia Arts
Digital Communications (1)
Digital Communications (2)
Entrepreneurship
Distribution and Logistics
Biomedical Science
Engineering
Programming and Software Development