





# Career and Technical Education (CTE)

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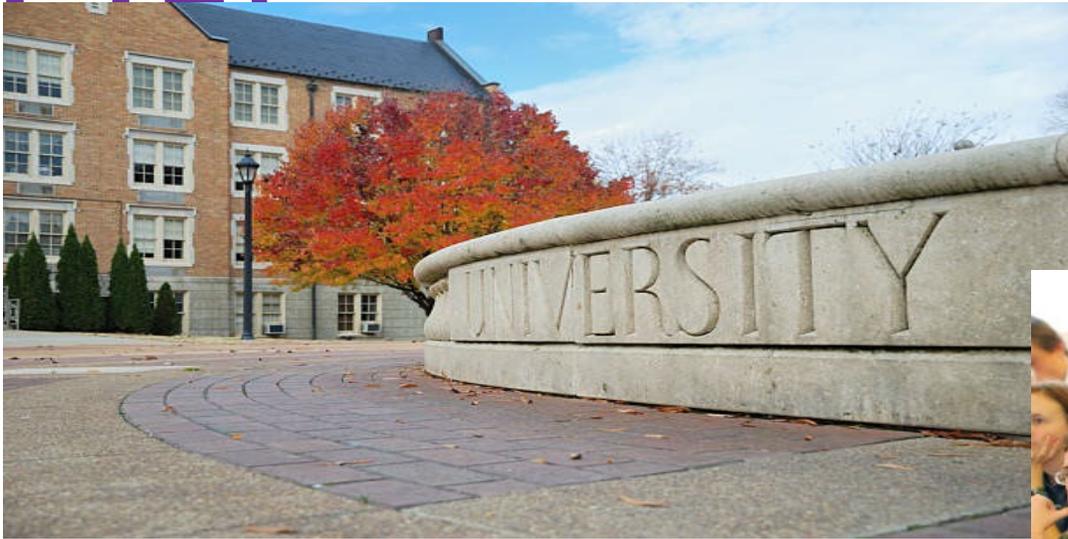


**FOR ALL STUDENTS**



# Career and Technical Education (CTE)

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CTE programs prepare students to enter  
**COLLEGE**

- Knowledge and skills to make informed decisions
- College CREDIT
- Partnership with TC and TAMUT



# Career and Technical Education (CTE)



CTE programs prepare students to enter **the WORKFORCE**

- Experience and expertise in the field
- Industry certifications
- Pipeline of talent



# Career and Technical Education (CTE)

- Visited with
  - Central and Campus Administration who support CTE
  - Almost every CTE teacher
  - Parents of students who are enrolled in CTE courses and parents of students who are not enrolled in CTE courses
  - Students who are currently taking, or have recently taken, CTE courses and students who have not taken CTE courses
  - Local business representatives who serve on the CTE Advisory Committee
- Visited CTE classroom and lab areas at the high school



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# CTE Programs of Study Currently Offered



Animal Science  
Environmental & Natural Resources  
Plant Science  
Architectural Design  
Carpentry  
Construction Management & Inspection  
Electrical HVAC & Sheet Metal  
Automotive  
Diesel & Heavy Equipment  
Design & Multimedia Arts  
Digital Communications

Accounting & Financial Services  
Business Management  
Entrepreneurship  
Marketing & Sales  
Early Learning  
Teaching & Training  
Family & Consumer Services  
Health & Wellness  
Cosmetology  
Culinary Arts  
Engineering  
Exercise & Wellness  
Healthcare Diagnostics  
Healthcare Therapeutic

Information Technology Support & Services  
Networking Systems  
Web Development  
Emergency Services  
Law Enforcement  
Legal Studies  
Welding  
Biomedical Science  
Programming & Software Development



# Career and Technical Education (CTE)

## Most Consistent Finding

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# Career and Technical Education (CTE)

## Most Consistent Finding

**There is a perception among students, staff members, parents, and the business community that CTE courses are not regarded as being important or valued.**





# Career and Technical Education (CTE)

## IMPORTANT FINDINGS FOR SPACE

- The CTE teachers are highly qualified and dedicated, and many have experience in the field; they have a strong desire to have really great programs but the facilities make it difficult
- No centralized location for all CTE classes to be together; classes all over campus
- Many CTE classes in regular classrooms without sufficient space for hands-on, active learning
- Most CTE classrooms do not look like or function like real-life work environments
- Some CTE classes do not have access to needed lab spaces

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# Career and Technical Education (CTE)

## IMPORTANT FINDINGS

- Culinary Classroom located between Construction and Welding; does not meet specifications for students to earn critical industry certifications
- Agriculture building has no suitable classroom space; greenhouse old and outdated
- Students report some CTE classes “have to be mostly bookwork because there is not room for anything else”
- Architectural classes in regular classroom space – too small for the large tables need; limited space for creating models
- Health services space limited and does not allow for the number of students who are interested in the program
- Construction area very limited; difficult to do large projects

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# Career and Technical Education (CTE)

## IMPORTANT FINDINGS

- Welding area did not have space or equipment for very many students to work in the lab at the same time or to store on-going projects
- No space for a desired JROTC program
- Limited work related experience for students enrolled in Early Childhood; no day care center attached to the high school; no space for one
- Current spaces are not contributing to encouraging students to want to take the programs



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# Career and Technical Education (CTE)

The following recommendations are made to provide dynamic, modern learning **SPACES** that effectively support high-quality CTE instruction:

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# Career and Technical Education (CTE)

## RECOMMENDATIONS

- Construct consolidated, dedicated CTE space, on the high school campus, that would house most CTE programs in one area
- Within the CTE space, position classes within a CTE Career Cluster near one another to allow for collaboration between students and teachers in similar classes
- Effort should be made to replicate real-life work environments to the degree possible to allow students to work on authentic, real-world tasks they will encounter in the workplace
- Classroom space should be as flexible and adaptable as possible to allow for changing programs – i.e. movable walls, power sources that come from above or raised, reconfigurable flooring with power that is available below the flooring

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# Career and Technical Education (CTE)

## RECOMMENDATIONS

- Provide and maintain digital infrastructure that will adequately and efficiently support the access to networks, hardware and software necessary to support all programs.
- Specialized classrooms where students are creating projects, such as architecture, engineering, welding and construction, should provide
  - space for direct instruction, research and planning
  - space for designing and prototyping
  - space for construction
  - space for storage for individual student and/or class projects, materials and equipment

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# Career and Technical Education (CTE)

## RECOMMENDATIONS

- Provide sufficient space for industry-standard equipment needed to adequately teach the required curriculum and provide students with access to the same tools and equipment that professionals in that field use every day
- Provide facilities that meet criteria for industry certifications so that students are eligible to earn certifications needed in the work-force
- Provide small group work areas, that can be shared across programs, where students can work collaboratively with others in project planning – skills essential in all workplaces



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# Career and Technical Education (CTE)

## RECOMMENDATIONS

- Provide a large presentation area, that can be shared across programs, where students can make presentations, share their ideas and present their finished projects – additional skills essential in all workplaces
- Locate food preparation programs in an area away from programs that generate fine particle dust that might be circulated through adjacent areas.

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# Career and Technical Education (CTE)

## EQUIPMENT IMPORTANT FINDINGS

- Much of the equipment is old, not industry standard, and some is not working
- Lack of equipment makes lab work almost impossible
- Health science equipment not up to date and not industry standard, with the exception of the new anatomage tables (3D anatomy visualization and virtual dissection tables)
- Much of the welding equipment not working



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# Career and Technical Education (CTE)

## IMPORTANT FINDINGS FOR EQUIPMENT

- Fashion Design had no life-size mannequins
- Culinary needs walk-in freezer and additional ovens
- Food Science has no permanent sink - had a small portable sink; no cook tops; not suitable for food preparation of any kind

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