

# TEXAS CTE

Your journey starts here.

**Career and Technology Education (CTE)** offers a sequence of courses that provide students with coherent and rigorous content. CTE content is aligned with challenging academic standards, relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions.



## Endorsements and Clusters

Endorsement	Clusters in the Endorsement
<b>STEM</b>	<ul style="list-style-type: none"> <li>Science, Technology, Engineering, and Mathematics</li> </ul>
<b>BUSINESS AND INDUSTRY</b>	<ul style="list-style-type: none"> <li>Agriculture, Food, and Natural Resources</li> <li>Business Management and Administration</li> <li>Information Technology</li> <li>Architecture and Construction</li> <li>Finance</li> <li>Manufacturing</li> <li>Arts, A/V Technology, and Communications</li> <li>Hospitality and Tourism</li> <li>Marketing</li> <li>Transportation, Distribution, and Logistics</li> </ul>
<b>ARTS AND HUMANITIES</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>PUBLIC SERVICE</b>	<ul style="list-style-type: none"> <li>Education and Training</li> <li>Government and Public Administration</li> <li>Human Services</li> <li>Health Science</li> <li>Law, Public Safety, Corrections, and Security</li> </ul>
<b>MULTIDISCIPLINARY STUDIES</b>	<ul style="list-style-type: none"> <li>All Career Clusters</li> </ul>



## Top Jobs

- ❖ Software Designer
- ❖ Financial Manager / Financial Advisor
- ❖ Computer Systems Analyst
- ❖ IT Manager
- ❖ Operations Research Analyst
- ❖ Business Operations Manager
- ❖ Information Security Analyst
- ❖ Database Administrator
- ❖ Computer Network Architect
- ❖ Web Developer

When looking for one of the best jobs of the future, two considerations will be crucial: what jobs pay well, and what jobs will expand dramatically in the next decade?



<https://www.cnn.com/2017/09/01/these-are-the-top-10-best-and-worst-jobs-for-the-future.html> CNBC  
[https://www.businessinsider.com/best-jobs-future-growth?utm\\_source=copy-link&utm\\_medium=referral&utm\\_content=topbar&utm\\_term=desktop](https://www.businessinsider.com/best-jobs-future-growth?utm_source=copy-link&utm_medium=referral&utm_content=topbar&utm_term=desktop)

KATHLEEN KRUMM

kkrumm@eustaceisd.net

Conference: 12:20-12:50

AMANDA PERKINS

aperkins@eustaceisd.net

Conference: 1:10-1:40

## Technology Delivers



Career choices, future job outlooks, career clusters, and high school endorsements are all part of the plan for your success. Technology classes lead to certifications, technical schools, University degrees and valuable job skills. Areas of interest include Journalism, Business Management and Marketing, Computer Science, Financial Management and Computer Programming. The top four 21st century skills, as reported by Hanover Research are included in these classes (collaboration & teamwork, creativity & imagination, critical thinking, problem solving)<sup>1</sup>



<sup>1</sup><https://www.envisionexperience.com/blog/13-essential-21st-century-skills-for-todays-students>

## STEM

Science, Technology, Engineering & Math

**Computer science** includes an introduction to programming using Kotlin, basic Java, methods, classes, object-oriented programming, data structures, algorithms, recursion, problem solving and practice problems for the AP computer science test. There are multiple projects, computer ethics discussions and opportunities to find coding solutions in other languages.

**Computer Programming** emphasizes hands-on skills and programming in Python and other languages. Students experiment with Raspberry Pi, breadboards, resistors, LED lights and Finch robots to practice programming solutions to given problems. Students are expected to grasp the big concepts and put in the time practicing to master the small details.

**Fundamentals of Computer Science** is intended as a first course for students just beginning the study of computer science. Students will learn about computing tools, digital citizenship, problem-solving and reasoning. Students will have opportunities to design, implement, and present solutions to real-world problems while collaborating and using computer science concepts to access, analyze, and evaluate information. Block programming, JavaScript, graphics and games are included in the curriculum.



## BUSINESS & INDUSTRY

**Business Information Management (BIM)** In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

**Money Matters** In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

**TEC Dual Credit**  
**Introduction to Business (BUSG 1301)** Fundamental business principles including structure, functions, resources, and operational processes.  
**Principles of Marketing (MRKG 1311)** An introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues.

## BUSINESS & INDUSTRY

**Yearbook** offers students the opportunity to publish a book from start to finish. Design, collaboration, photography, reporting, writing, marketing, and editing are completed in one year. Students also attend professional journalism workshops, plan the theme, cover all events at school, adhere to AP style, design the cover, plan the theme and plan the signing party. Yearbook gives students on the job training different from any other class.

## 21ST CENTURY SKILLS

HOW TODAY'S STUDENTS CAN STAY COMPETITIVE IN A CHANGING JOB MARKET

