

Course Descriptions

Career and Technical Education Department

Programs of Study

The Houston High School CTE Department offers students real-world experience, industry-aligned coursework, and opportunities to earn certifications and participate in work-based learning. Our programs prepare students for success in college, technical training, and high-demand careers.

To satisfy graduation requirements, students must complete an elective focus of 3 credits in any one of the following areas: Advanced Placement (AP), Career and Technical Education Program of Study, Fine Arts, Humanities, or Math and Science. The following CTE Programs of Study satisfy this requirement.

State Recognized CTE Cluster	Program of Study	Courses
Advanced Manufacturing	Mechatronics	1. Principles of Manufacturing+^ 2. Digital Electronics 3. *Mech I DE: Electrical Components+ & *Mech II DE: Fluid Power+ 4. *Mech III DE: Mechanical Components+ & *Mech IV DE: PLC Programming+
Agriculture, Food, & Natural Resources	Horticulture Science	1. Agriscience^ 2. Principles of Plant Sci & Hydroculture+^ 3. Greenhouse Management 4. Landscaping & Turf Science
Arts, Audio/Visual Technology, & Communications	Audio/Visual Production	1. Audio Visual Production I 2. Audio Visual Production II+^ 3. TV & Video Production Lab DE+ 4. Introduction to Media DE+
	Digital Arts & Design	1. Digital Arts & Design I 2. Digital Arts & Design II 3. Digital Arts & Design III+^
Business Management & Administration	Business Management	1. Intro to Business & Marketing 2. Business Communication 3. Business Management 4. Introduction to Entrepreneurship DE+
Health Science	Therapeutic Services	1. Health Science Education 2. Anatomy & Physiology: Health Sciences 3. Medical Therapeutics^ 4. Clinical Intern Therapeutics+^ 5. Additional offering: Sport Medical Terminology DE+ ONLINE
Hospitality and Tourism	Culinary Arts	1. Culinary Arts I 2. Culinary Arts II+^ 3. <i>Culinary Arts III (2027-28)</i> 4. <i>Culinary Arts IV (2028-29)</i>
Human Service	Human & Social Sciences	1. Introduction to Human Studies 2. Lifespan Development 3. *Family & Global Perspectives DE+ & *Family Resource Management DE+ 4. Additional offering: Principles of Nutrition DE+ ONLINE
Information Technology	Coding	1. Computer Science Foundations or Computer Science Principles AP+ 2. Coding I 3. Coding II Honors 4. Computer Science A AP+
Law, Public Safety, Corrections, & Security	Criminal Justice & Correction Services	1. Criminal Justice I 2. Criminal Justice II 3. Criminal Justice III 4. *Introduction to Criminal Justice DE+ ONLINE & *Introduction to Policing DE+ ONLINE
Marketing, Distribution, & Logistics	Marketing	1. Intro to Business & Marketing 2. Marketing & Management I 3. Social Media & Analytics 4. Introduction to Entrepreneurship DE+
STEM	Advanced STEM Applications	1. STEM I: Foundation Honors+^ 2. STEM II: Applications Honors 3. STEM III: STEM in Context Honors+^ 4. *STEM IV: Prep for Engr Prob Solving DE+ & STEM IV: *Engineering Problem Solving DE+

*0.5 credit course

+EPSO

& Must take both courses

^Industry Certification

Juniors and seniors can apply for a Work-Based Learning Career Practicum after completion of at least two course offerings in a program.