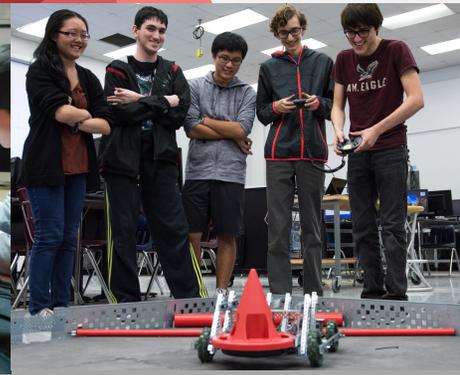# Career Technical Education

What is CTE?

Career and Technical Education (CTE) opportunities provide students with a school-to-career connection. Cooper City High School offers a variety of CTE courses that lead to industry certification, enabling students with the training and certification needed to attain employment right out of high school. All Industry certifications are real-world certifications that are designed, administered, and recognized by industry. Students who earn Industry Certifications may have an advantage gaining employment or be eligible for post-secondary scholarships.

Programs Offered at CCHS

- **Auto Maintenance & Light Repair**
- **Computer Science**
- **DECA**
- **Drafting**
- **Early Childhood Education**
- **Film**
- **Journalism**
- **Video Production**

Auto Maintenance & Light Repair

About this Program

The Auto Maintenance & Light Repair program focuses on light repair and general maintenance. Through the program, students will be prepared for entry into Automotive Maintenance and Light Repair. The program contains three benefits for students. First, students will explore career opportunities and requirements of a professional service technician. Second, students will learn how to utilize different tools to do light repair work on a car. Third, students will study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills. Students who matriculate through the program will be provided the opportunity to obtain their ASE certification on Brakes if they pass the student level certification exam.

Courses

Below is the list of courses within The Auto Maintenance & Light Repair program. After completing the Auto Maintenance & Light Repair 3/4 Honors course, students will obtain the opportunity to take the ASE Entry-level Student Certification.
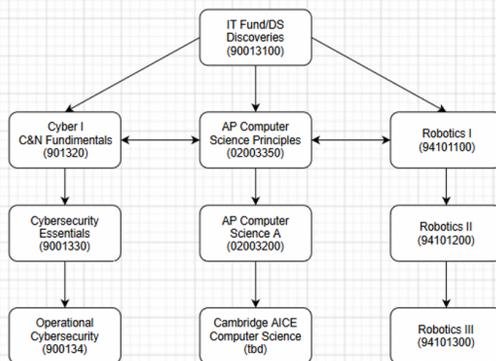
1) Auto Maintenance & Light Repair 1/2 Honors (95041100/95041200)

2) Auto Maintenance & Light Repair 3/4 Honors* (95041300/95041400)

3) Auto Maintenance & Light Repair 5/6 Honors* (95041500/95041600)

Computer Science

Course Descriptions

About this Program

As part of our course offerings here at Cooper City High we are proud to offer a dizzying array of Computer Science courses to our students. Below you will find a chart of our course progression as well as brief descriptions of the individual courses.

Computer Science Course Flowchart

Computer Science Discoveries:
A course that will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Students will learn through exploration not memorization.

Robotics I:
Introduces students to electronic circuit design, the engineering design process, and the use of programming to control real world objects. Students will use Arduino Development kits and ESP32s to give their projects Wi-Fi and Bluetooth capabilities.

Robotics II:
Students expand on what they have learned in Robotics I and learn to program, build and automate robots to complete various tasks and challenges. Students will get to compete against each other in numerous challenges and games. Their robots will navigate mazes, throw balls at each other, pick up and stack cones in timed races, and maybe even do the chicken dance.

Robotics III:
Students will take their Robotics skills even further, designing and building competition robots using Vex V5 hardware.

Cambridge International AS Level Computer Science:
Students meet the needs of higher education courses in computer science as well as twenty-first century digital employers. This course encourages leaders to think creatively, through applying practical programming solutions, demonstrating that they are effective users of technology.

AP Computer Science Principles:
An introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge.

AP Computer Science A:
AP Computer Science A is a programming class. The course emphasizes object-oriented programming methodology, especially problem solving and algorithm development, plus an overview of data structures and abstraction.

Computer and Network Security Fundamentals:
This course is designed to allow students to achieve a CompTIA A+ Industry Certification. CompTIA A+ is the industry standard for launching IT careers into today's digital world and is trusted by employers to identify the go-to person in endpoint management & technical support roles. A+ is the only industry recognized credential with performance-based items to prove pros can think on their feet to perform critical IT support tasks in the moment.

Cybersecurity Essentials:
This course is designed to allow students to achieve a CompTIA Network+ Industry Certification. CompTIA Network+ helps develop a career in IT infrastructure by covering troubleshooting, configuring, and managing networks. This certification validates the hands-on skills needed to work with both wired and wireless networks, and also included are emerging technologies such as unified communications, mobile, cloud, and virtualization technologies.

#CowboysCode

DECA

About this Program

DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality, and management in high schools and colleges around the globe. The DECA program at Cooper City High School is divided into two pathways. They are Entrepreneurship and Hospitality & Tourism.

Entrepreneurship

Students in the Entrepreneurship Pathway will learn various aspects of business including but not limited to legal business structures, business environment, human resources, marketing, and finance. All students are required to join DECA and will participate in the many competitions this organization has to offer. Seniors will participate in the VEI program which prepares students for the real-world through a year-long simulation of a startup business that operates in a virtual economy with other schools in the program. Students in these courses will have the opportunity to earn a QuickBooks and Microsoft Office certification.

Hospitality & Tourism

The Academy of Hospitality & Tourism (AOHT) helps students chart career paths in one of the world's largest industries, from hotel and event management to sports and entertainment. Students who matriculate through this program will obtain necessary career-specific instruction in hospitality and tourism marketing management. Students will learn sales and management techniques, marketing principles, and entrepreneurship skills necessary to succeed in the hospitality and tourism industry. All students are required to join DECA and will participate in the many competitions this organization has to offer.

Courses

Business Management & Analysis

1) Digital Info Tech (MOS Certification)
2) Business and Entrepreneurship
3) Accounting Applications Honors 1 (QuickBooks Certification)
4) AICE Business AS Level
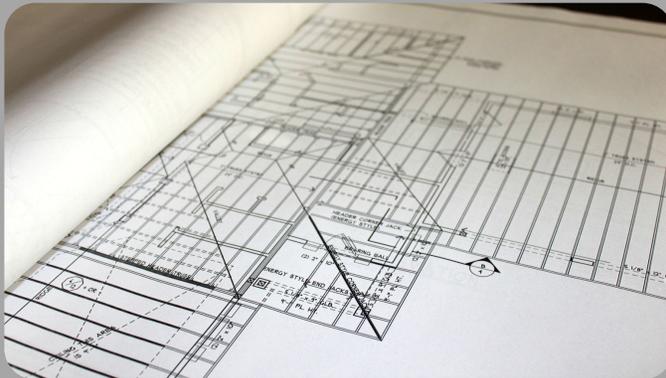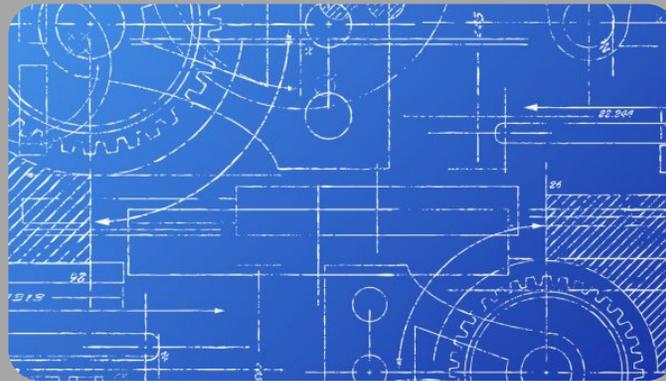5) Management and Human Resources (Virtual Enterprise International curriculum)

Hospitality & Tourism

1) Technology for H & T (87031100)
2) Introduction to H & T (88501100)
3) H&T Market Management Honors (87031200)
4) H&T Entrepreneurship Honors (87031300)
5) AICE Travel & Tourism (21024100)

Drafting

About this Program

The purpose of the Drafting program is to prepare students for employment or advanced training in the drafting and/or architecture industry. The program consists of three courses that provide for the technical knowledge used in the industry as well as training and certification in the use of the drafting software; AutoCAD and Revit. Students who partake in this program will be benefited in three ways. First, students will obtain instruction in basic drawing and drafting skills, applied mathematics, multi-view, and sectional drawings. Second, students will acquire competencies in basic architectural and civil computer-aided drafting and design, as well as an overview of the history of the built environment. Third, students will obtain knowledge regarding computer-aided drafting skills, professional ethics and career, and education planning. The students who matriculate through the drafting program should be well prepared to enter into the Architecture or Construction industry or to further their education at a college or university.

Courses

Below is the list of courses within the Drafting program. After completing Drafting 1, students will obtain the opportunity to take AutoCAD certification exam. Once students complete Drafting 2, they will have the opportunity to take the Revit certification exam.

1) Drafting 1 Honors (87250100)

2) Drafting 2 Honors (87250200)*

3) Drafting 3 Honors (87250300)*

Early Childhood Education

About this Program

The Early Childhood Education (ECE) program is a career technology program, which was designed for prospective early childhood teachers or students who would like to pursue a career working with children. The ECE provides the knowledge and skills necessary for entry level through the National Child Development Associate. The primary purpose of the ECE program is to provide students with a strong foundation in Early Childhood Education theory and best practices. The students construct knowledge and gain meaning, while applying new skills in our onsite Early Learning Lab, the Littlest Cowboys Preschool. The learning lab is an integral part of the program in which students gain real world experience, industry skills and employability skills, therefore for preparing them for the 21st century workforce.

Program Structure

The ECE program is structured into two main components:

1. **ECE Theory:** Students are instructed in current and relevant Early Childhood best practices, child development, classroom management, guidance techniques, and rules and regulations. The goal of ECE theory is to prepare students for the workforce while building a solid foundation and understanding of how children grow and develop as well as teaching, nurturing and caring for children ages birth to five.

2. **Early Learning Lab:** Students work in the on campus Early Learning Lab. When working in the Early Learning Lab students gain hands-on experience while applying ECE theory and best practices. In addition, students create and implement daily lesson plans/ learning activities as well as plan and implement family events.

Courses

The ECE program consists of 5 courses:

- Early Childhood Education 1 (84051100)
- Early Childhood Education (84051200)
- Early Childhood Education 3 (84051300)*
- Early Childhood Education 4 (84051400)*
- Directed Studies (85001000)

These courses require registering for state and national certifications in early childhood, testing at on off-site location and volunteer hours in the ELL each year for certification.

The courses total a minimum of 600 Hours
- 120 hours of classroom instruction
- 480 hours of direct work with children five years of age and under

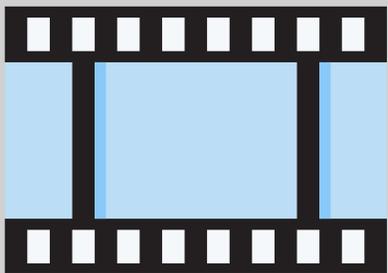### Through this program students can potentially graduate with the following:
- ECPC State Certification
- CDA National Certification
- American Red Cross CPR Certification
- ECE Industry Certification Honor Cord

Film

About this Program

The Film program is a great fit for students who love to watch movies and are interested in learning the history and intricacies of the industries. The instructional focus of the program will be on film. Through this program, students will be introduced to the particulars of film history as well as the variety of cinematic genres. Also, students who partake in this program will be delving into their creative sides with beginning visual technology through Photoshop.

Courses

Below is the list of courses within the Film program. Students who matriculate through the program will obtain the opportunity of acquiring two certifications. First, students who complete the Film 1 course will take the Photoshop certification exam. Second, students who complete the Film 2 course will take the Premiere Pro certification exam.

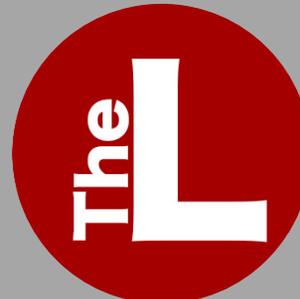1) Film 1/ Dig Video Arts (01074100/01074400)*

2) Film 2 (01074200)*

3) AICE Media Studies I AS Level (11004600)*

Journalism

About this Program

The Journalism program is a great fit for students who possess a strong desire to acquire knowledge regarding writing different types of articles, interviewing, publishing a school newspaper, and using social media to share school news. Students who partake in this program will be benefited in four ways. First, students will develop fundamental skills in the production of journalism across print, multimedia, web, and broadcast/radio platforms and develop knowledge of journalism history, ethics use, and management techniques related to the production of journalistic media. Second, students will help produce a publication written and fully designed by staff members of The Lariat student newsmagazine or The Roundup yearbook. Third, students will gather news, write leads and articles, take photographs, and use Adobe InDesign. Fourth, students will hone interview and research skills as well as master the craft of journalistic writing. There are multiple opportunities for students in the program to participate in leadership and competition events.

Courses

Below is the list of courses within the Journalism program. During Journalism 1, students will obtain the opportunity to take the Adobe InDesign certification exam.

1) Journalism 1 (1006300A)*
2) Journalism 2 Local Honors (Np) (1006310A)
3) Journalism 3 Local Honors (Np) (1006330T)
4) Journalism 4 Honors (Np (10063320)
-----OR------
1) Journalism 1 (1006300A)*
2) Journalism 2 Local Honors (Yb) (1006310D)
3) Journalism 3 Local Honors (Yb) (1006330V)
4) Journalism 4 Honors (Yb) (10063321)

Video Production

About this Program

Digital Video Production is for students seeking a career in the field of film and video production. Students will gain hands-on experience with digital video production and editing equipment preparing them for careers in production, camera operation, video editing, multi-media artist, and broadcast technicians. Students will have the opportunity to become certified in an industry software program, Adobe Premiere Pro. Digital Video Production 1 is based on group production and the creation process. Students who participate in this program will obtain the privilege of partaking in a hands-on learning experience. In just two semesters, students will create five projects including a music video, public service announcement, and a news package picking up skills like scripting, filming, and editing along the way.

Courses

Below is the list of courses within the Digital Video Production program. During the completion of Digital Video Production 1, students will have the opportunity to take the Adobe Premier Pro certification exam.

1) Digital Video Production 1 Honors (87724100)*

2) Digital Video Production 2 Honors (87724200)*

3) Digital Video Production 3 Honors (87724300)*

4) Digital Video Production 4 Honors (87724400)*