

CUTHBERTSON HIGH SCHOOL

Information for CTE Courses and Opportunities



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CTE COURSES BY PROGRAM AREAS

AGRICULTURE

If you like animals and/or plants then Ag courses are a good choice for you.

- **Animal Science I**

- This class talks about the basic principles involved in animal breeding, nutrition and care for animals.

- **Animal Science II - Honors**

- **Prerequisite: Animal Science I**
- This class goes further in depth in the Animal Science I topics and adds topics in genetics, economics, and decision making.

- **Animal Science II – Small Animal**

- **Prerequisite: Animal Science I**
- This class covers topics related to small animals that are served by a veterinarian. It covers things like breeding, grooming, and care.

- **Vet Assisting – Honors**

- **Prerequisite: Animal Science II or Animal Science II Small Animal**
- This class is for students that are interested in working in a Vet's office. It covers terminology and skills related to managing a veterinary practice. It will also cover surgical and radiological procedures and patient care.

- **Horticulture I – CP or Honors**

- This class cover topics like plant identification, pest management, plant growth, and plant nutrition. You will get to work with plants and get hands on experience out in the greenhouse.

- **Horticulture II – Honors**

- **Prerequisite: Horticulture I**
- This class will cover topics from Horticulture I in more detail and talk about Landscaping. These students will get hands on experience in the greenhouse and are in charge of growing plants and running the Spring Plant Sale.

BUSINESS, FINANCE AND MARKETING

If you are interested in anything in the business world try these classes.

- **Accounting I & II – Honors**
 - Accounting is designed to help students understand the basic principles of the accounting cycle. It is the ABC's of business! Emphasis is placed on learning about business transactions, interpretation of financial statements, banking and payroll activities
- **Business Law – Honors**
 - Learn all about the fundamentals of civil and criminal law, the courts, law enforcement and law related to the business world too.
- **Career Management**
 - This course explores different careers and the skills that you need to get and keep or change careers. In this class they will work on communication, interpersonal skills, problem solving, and teamwork.
- **Entrepreneurship I & II – Honors**
 - These courses are for the students that are interested in starting their own business. It will cover the business plan and all areas covered in that plan. It will talk about products and services, financing, marketing, and access to resources for starting a small business.
- **Financial Planning I & II**
 - Students will examine different types of investments and investment strategies to build wealth and create financial security.
- **Principles of Business**
 - This course covers the basics of business. It is the prerequisite for several advanced business courses. This course covers basic finance, management, and marketing topics.
- **Sales I – CP or Honors**
 - This course covers the basic knowledge around the sales profession including careers in sales and the selling process.
- **Fashion Merchandising – CP or Honors**
 - This class should bring alive the economics, distribution, promotion, and retail of fashion, and essential strategies of promoting and selling fashion. Upon completion of the course, students should be ready for entry-level fashion retail work or post-secondary education.
- **Hospitality & Tourism – CP or Honors**
 - **Prerequisite: Marketing or Sports & Entertainment Marketing, or Principles of Business**
 - This course will talk about the marketing strategies and economic impact for tourism destinations. It will talk about customer relations, economics, legal and ethical responsibilities, safety and security and promotion of different destinations.
- **Marketing – CP or Honors**
 - In this course, students develop an understanding of the processes involved from the creation to the consumption of products/services. They learn about branding, consumer behaviors, social media promotion, business strategies, and how products get from the producer to the consumer.
- **Marketing Applications - Honors**
 - **Prerequisite: Marketing or Fashion Merchandising**
 - In this course, students will apply an understanding of marketing functions and impact of the functions on business decisions by partnering with local businesses and/or nonprofits.
- **Sports and Entertainment Marketing I & II –CP or Honors**
 - These courses are for students that want to learn more about the industry of sports, entertainment and event marketing. It will cover topics such as branding, licensing and naming rights. Students will also learn about the process of designing venues, from concession locations and pricing to safety and security.

COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

If you are interested in computer classes try these.

- **Adobe Visual Design - Honors**

- This course will be a **deep dive** into Adobe Photoshop, Adobe InDesign & Adobe Illustrator. Students will be given the opportunity to credential in **all three** of these software programs.

- **Adobe Video Design - Honors**

- **Prerequisite: Adobe Visual Design or Multimedia & Webpage Design**
- In this honors course, students will explore basic filmmaking skills such as camerawork, lighting and sound. Students will also explore Adobe Premiere Pro; a professional digital film editing program used throughout the film industry. Students will be given the opportunity to credential in this software.

- **Advanced Film Editing and Production - Honors**

- **Prerequisite: Adobe Video Design**
- This course continues building on Adobe Video Design and add in the graphic motion techniques. It is a project based course where students will work independently and in groups on various film projects.

- **Microsoft Word & PowerPoint**

- Students in this course will learn skills that they can use throughout high school, college and in the career of their choice. This course will prepare students to take the Microsoft Word and PowerPoint certifications.

- **Microsoft Excel - Honors**

- Students in this course will create and manage spreadsheets for a variety of purposes and situations. This course will prepare students to take the Microsoft Excel Core and Expert level certifications.

- **AP Computer Science Principles**

- This **one semester AP course** is offered in the spring and **gives an overview of all areas of computer science**. There are 7 parts to the course of which 3 parts are programming so it is not just all programming! SNAP code is taught in this course which is block coding based on underlying Java Script.

- **Python Programming I & II - Honors**

- **Prerequisite: Visual Basic recommended**
- This course will teach students how to write programs using the Python computer language.

- **Visual Basic Programming**

- This course will teach students how to write programs using the Visual Basic computer language.

FAMILY AND CONSUMER SCIENCE

- **Apparel & Textile Production I**
 - This course is for students that are interested in learning how to sew. It covers topics such as fabrics, patterns, design sketches, and basic clothing production.
- **Apparel & Textile Production II**
 - **Prerequisite: Apparel I**
 - This course is for students that are interested in advancing their sewing skills from Apparel I. It goes more in depth in topics such as fabrics and their uses, design, and sewing techniques. They will also work on skills needed to start an apparel business.
- **Foods and Nutrition I**
 - This course will help students explore safety & sanitation, food groups, and the role of nutrition on personal health. This course will be appropriate for students considering careers in the food service industry.
- **Culinary Arts & Hospitality I - Honors**
 - **Prerequisite: Foods & Nutrition I Recommended**
 - This course focuses on advanced food preparation techniques while applying safety and sanitation practices. Students will have the opportunity to sit for the national industry-recognized food safety exam called ServSafe.
- **Interior Design I**
 - Interior Design I covers the foundations for the design industry. It covers topics such as color theory, elements and principles of design, sketching of designs, space planning, product selection and client relationships in interior design.
- **Interior Design II**
 - **Prerequisite: Interior Design I**
 - Interior Design II builds on the foundations learned in Interior Design I. It will also talk about topics such as meeting living space needs for families, selection of materials, and business procedures.
- **Child Development**
 - This course covers topics related to a child's development from the womb to age six. It talks about things such as child care issues, day care, responsibilities of parents, and influence parents have on children.

Health Science

If you are interested in anything in the medical field then you should take these courses.

- Health Science I - Honors
 - In Health Science I students, will learn the structures, functions and disorders related to all 12 of the body systems.
- Health Science II - Honors
 - **Prerequisite: Health Science I**
 - In Health Science II, students will build upon Health Science I as we learn about healthcare foundation standards, safety and infection control procedures, health science standards and procedures to provide basic emergency care. During this course, you will have the opportunity to earn certifications that are directly related to healthcare.

TRADE, TECHNOLOGY, ENGINEERING AND INDUSTRIAL

- **Public Safety**

- This course begins with a study of various careers in public safety. It provides basic information in corrections, emergency and fire management, law enforcement, and legal services. This course is the foundation for our Public Safety Academies - Firefighter, Law and Justice and EMT.

- **Law and Justice I**

- Prerequisite: Public Safety Recommended
- Students desiring to pursue a career in Law and Justice will examine the basic concepts of law related to citizens' rights and officers' responsibilities to maintain a safe society. Students will then examine the components of the criminal justice system, including the roles and responsibilities of the police, courts, and corrections.

- **Law and Justice II - Honors**

- Prerequisite: Law and Justice I
- This course emphasizes "need-to-know" information for protection officers throughout the security industry and is aligned to the International Federation of Protection Officers (IFPO) certification as a Certified Protection Officer (CPO).

- **Robotics Engineering I - Honors**

- Prerequisite: Math I
- In this course students are introduced to the world of robotics. It reviews fundamental robotic terms and concepts required throughout the course. The student will learn about the engineering design cycle and how to record information into an engineering notebook.
- As the student progresses through the course, they will construct VEX robots and program the controller. They will learn how to use basic assembly tools as well as how to identify available VEX robotic components from the classroom inventory system.

- **Robotics Engineering II - Honors**

- Prerequisite: Robotics Engineering I
- Robotics 2 Honors is a continuation of Robotics 1 Honors. In this course students will start with an introduction to basic electronics using real components and their own breadboard to create increasingly complex circuits. On the mechanical side of the base bot, students will build a fast, durable, four-wheel drive robot and learn advanced programming.
- The course is taught using competitive challenges and industrial applications.

UCPS ACADEMIES

UCPS Academies are programs that are geared more toward career specific pathways. The academies are spread out across the county, but students from all UCPS high schools have the opportunity to attend academy classes at the various schools. If a student is interested in one of the academies, they can fill out an application for that academy. If they are approved for the academy, the student would remain at their homeschool for core classes and then travel to the academy school for the specific academy class. The students must be able to provide their own transportation to the academy school. They will also need to schedule an online class to allow for travel time back and forth between the academy school and their home school.

UCPS ACADEMIES AND PROGRAMS

- Advanced Film Editing & Design
 - Ag Mechanics
 - Automotive Repair
 - Aviation and Aerospace Engineering
 - Clean Energy
 - Collision Repair
 - Carpentry
 - HVAC
 - Electrical
 - Masonry
 - Welding
 - Cosmetic Arts
 - Culinary Arts
 - Drafting – Engineering and Architecture
 - Early Childhood Education
 - Engineering
 - Law and Justice
 - TV Programming and Broadcasting
 - Nurse Aide
 - Pharmacy Technician
 - Project Lead the Way Engineering
 - Public Safety - Fire Fighter
 - Robotics
 - Veterinary Assisting
- You must have your own transportation.
 - You will spend 1 blocks at the Academy School, 1 block in an online class and 2 blocks at CHS.
 - Click [Here](#) for more information on each individual academy.

Applying for a UCPS Academy Online

- Please go to <https://ucpscte.org/applying-for-an-academy/>
- Please click on your Academy of interest to **make sure you have met the prerequisites.**
- **Complete the online application** and select UCPS Academy of interest in PowerSchool in the “CTE Academy Interest” section.
- You will be emailed a PDF file of your application for you and your parent to sign.
- **Please submit signed application to Mrs. Gautreaux in Room E115.**

CTE Internship Program

- Rising Seniors can participate in a CTE Internship based on their career interests.
- Students must have taken 2 CTE courses to be eligible and must provide their own transportation.
- Semester Internships - can be completed either fall or spring semester during the senior year.
- Flex Internships – can be completed the summer before the senior year or can be completed outside of the school day during the senior year.
- **Those interested in a CTE Internship must complete an application – please either email or see Ms. Gautreaux in room E115 for more information.**

Marketing CO-OP Program

- Marketing Co-op is a CTE program where students working in a marketing-related job can take this course in conjunction with a CTE Marketing course.
- To participate in the program you must be in 11th or 12th grade and complete an application.
- You must take a marketing class with the co-op marketing class during the same semester.
- These two courses are linked together. You must pass your marketing class to pass Co-Op.
- **Please see Ms. Gautreaux in Room E115 for a Co-Op application.**

CONTACT INFORMATION

- If you have any questions or would just like more information about any of our class offerings, academies, or internships please contact Mrs. Gautreaux.
- Email : tyna.Gautreaux@ucps.k12.nc.us
- Office: Room E115
- Phone Number: 704-296-0105

Let CTE help guide your path!