

HORIZON CHARTER SCHOOLS' CAREER TECHNICAL EDUCATION (CTE) PATHWAYS

Courses are A-G

CTE Pathway Name	Agriculture, Food and Plant Systems	Financial Services
Introductory Course	CTE Agriculture, Food, & Natural Resources	CTE Careers in Finance
Concentrator Course #1	CTE Plant Systems	CTE Personal Finance
Concentrator Course #2	CTE Food Products & Processing Systems	CTE Business Law
Capstone Course	CTE Agribusiness Systems	CTE Banking Services Careers

Requirements:

Four courses (20 credits) from the same CTE Pathway must be completed in the designated sequential order using Edgenuity Instructional Services Courses. Students must also complete two Aligned Participation Activities (APA's), with at least one that is related to the student's CTE Pathway's industry sector (i.e. if you are working on the Financial Services CTE Pathway, job shadow somebody working at a financial institution, such as a bank).

APA's can include: guest speaker, workplace tour, informational interview, job shadowing, student enterprise, work experience, visiting a parent at work, career interest survey, and attending college or career fairs. Other career-related activities may be accepted (please confirm with your counselor).

- Students should confirm APA completion with their Supervising Teacher (or counselor).
- Coursework and APA completion will be tracked on the student's CTE record, along with the required "C- " grade or better in the Capstone course to ensure eligibility for the CTE Pathway Completion Certificate.
- Coursework counts towards "Career Education" High School Graduation Requirement.
- Excellent way for students to learn about possible career options.
- All requirements must be completed by the end of the second year of coursework completion in order to earn a CTE Pathway Completion Certificate!



Agriculture, Food and Plant Systems

CTE Agriculture, Food, & Natural Resources- This semester-length high school course introduces students to the basic scientific principles of agriculture and natural resources. Students recognize and research plant systems, animal systems, government policy, “green” technologies, agribusiness principles, and sustainability systems. In this course, students apply understanding of ecosystems and systems thinking to the management of natural resources to maximize the health and productivity of the environment, agriculture, and communities. Students also analyze community practice or policy development related to sustainability in agriculture, food, and natural resources. Finally, students apply adaptive ecosystem management to a common pool resource problem in a manner that addresses ecological, socioeconomic, and institutional contexts.

CTE Plant Systems- Plant Systems is a semester-length high school course that introduces students to the basics of plant biology, soil science, agriculture, and horticulture, along with the environmental management practices involved in each, including integrated pest management, biotechnology, growth techniques, and crop management. Students learn the basic parts of a plant, how plants are scientifically classified, and how they interact with water, air, nutrients, and light to undergo the processes of photosynthesis and respiration. Plant reproduction, including pollination, germination, and dispersal of seeds, is also presented. The course concludes by looking at careers in the plant sciences which includes agronomy, horticulture, or landscape design.

CTE Food Products and Processing Systems- Agriculture, food, and natural resources are central to human survival and civilization. The development, use, and stewardship of natural resources to create food products have a long and ever-changing timeline. This semester-length high school course explores the history and evolution of food products, along with the processing methods that have arisen to feed an ever growing world population. Students study specifics in a wide spectrum of food product topics, from early methods of preservation to technological advancements in packaging, regulations in labeling, and marketing trends. Students learn industry terminology.

CTE Agribusiness Systems- is a semester-length high school course that introduces the business, management, marketing, and financial skills needed to successfully produce food, fiber, and fuel for domestic and global markets. Students learn about the components of the agribusiness system and how they interact to deliver food to our tables. They also learn about the key elements of a successful agribusiness enterprise: economics, financial management, marketing and sales, and government policies and regulations.



Financial Services

CTE Careers in Finance- is a semester-length high school course that provides the fundamentals of the financial services industry in the United States and explores the jobs and career opportunities that the industry offers. Course units address a broad set of services in the industry including finance overview, financial services, securities analysis, investments, principles of corporate finance, banking services, risk management, and insurance.

CTE Personal Finance- is a semester-length high school course that prepares students to navigate personal finance with confidence. The course opens with a study of what it means to be financially responsible, engaging students in budgeting, planning, and being a smart consumer. Students learn about the relationship between education, employment, income, and net worth, and they plan for the cost of college. Students then broaden their study to include banking, spending, investing, and other money management concepts before exploring credit and debt. In the final unit of the course, students study microeconomics and entrepreneurship, with an overview of economic systems, supply and demand, consumer behavior and incentives, and profit principles. The course concludes with an in-depth case study about starting a business.

CTE Business Law- is a semester-length high school course designed to provide students with the knowledge of some of the vital legal concepts that affect commerce and trade, after first gaining some familiarity with how laws are created and interpreted. Students are then introduced to the types of businesses that can be created as well as the contractual and liability considerations that can impact a business. Laws that affect how a business is regulated are reviewed, particularly the impact of administrative rules and regulations on a business. Global commerce and international agreements, treaties, organizations, and courts are discussed to get a better sense of what it means to “go global” with a business. Dispute resolution strategies are also addressed.

CTE Banking Services Careers- A semester-long high school course that provides an overview of how the banking system works, what the Federal Reserve is, and the technical and social skills needed to work in banking and related services. Students explore career paths and the required training or higher education necessary and gain an understanding of the basic functions of customer transactions (e.g., setting up an account, processing a loan, establishing a business), cash drawer activity, check collection processes, and other customer service–related transactions. This course also discusses how technology has changed banking in the 21st century. The banking industry is responsible for many of the products that we use on a daily basis, from checking and savings accounts to debit cards, credit cards, and loans.



