

# **Apollo High School**

## **CTE Program Area Offerings**

# Agriculture Career Pathways

## Agricultural Power, Structural, Technical Systems – CIP 01.0201.00

The Agricultural Power, Structural, Technical Systems pathway is built on the application of concepts in engineering, hydraulics, pneumatics, electronics, power, structures, and controls to the field of agriculture. Students design agricultural structures as well as machinery and equipment, while utilizing safe practices of operation and maintenance.

Course Offerings:

Principles of Agricultural Science and Technology
Agriculture Construction Skills
Small Power and Equipment
Agriculture Power and Machinery Operation
Agriculture Structures and Designs
Agricultural Education Co-op

## Animal Science Systems – CIP 01.0901.00

This pathway focuses on the scientific principles that underline the breeding, care, and management of agricultural animals and the production, processing, and distribution of agricultural animal products. This includes developing better, more efficient ways of producing and processing meat, poultry, eggs and dairy products, as well as studying genetics, nutrition, reproduction, growth and development of animals.

Course Offerings:

Principles of Agricultural Science and Technology
Animal Science
Small Animal Technology
Veterinary Science
Agricultural Education Co-op

## Horticulture and Plant Science Systems – CIP 01.1101.00

This pathway focuses on the scientific principles that underlie the breeding, cultivation, and production of agricultural plants, and the production, processing, and distribution of agricultural plant products. Includes instruction in the plant sciences, crop cultivation and production, and agricultural and food products processing.

Course Offerings:

Principles of Agricultural Science and Technology
Introduction to Greenhouse and Crop Production
Floriculture and Floral Design
Greenhouse Technology
Nursery and Orchard Technology
Landscape and Turf Management
Crop Technology
Agricultural Education Co-op

# Business Career Pathways

## Accounting – CIP 52.0301.00

This pathway generally prepares individuals to practice the profession of accounting and to perform related business functions. Includes instruction in accounting principles and theory; financial accounting; managerial accounting; budget control; tax accounting; legal aspects of accounting; auditing; reporting procedures statement analysis; planning and consulting; business information systems; accounting research methods; professional standards and ethics; and applications to specific for-profit, public, and non-profit organizations.

Course Offerings:

<u>Required</u>	<u>Optional</u> (choose 1-2)
Accounting and Finance Foundations	Personal Finance
Financial Management	Introduction to Management
	Business and Marketing Essentials
	Digital Literacy
	Business Education Co-op

## Financial Services – CIP 52.1908.00

This pathway prepares individuals to perform a wide variety of customer service in banks, insurance agencies, savings and loan companies, and related enterprises. Includes instruction in communications and public relations skills; business equipment operation; and technical skills applicable to the methods and operations of specific financial or insurance services.

Course Offerings:

<u>Required</u>	<u>Optional</u> (choose 1-2)
Personal Finance	Financial Services II
Financial Services I	Business and Marketing Essentials
Accounting and Finance Foundations	Business Education Co-op

## Management and Entrepreneurship – CIP 52.0701.00

This pathway generally prepares individuals to plan, organize, direct, and control the functions and processes of a firm or organization. Includes instruction in management theory, human resources management and behavior, accounting and other quantitative methods, purchasing and logistics, organization and production, marketing, and business decision making.

Course Offerings:

<u>Required</u> (choose 3-4)	<u>Optional</u> (choose 1-2)
Business and Marketing Essentials	Digital Literacy
Introduction to Management	Business Education Co-op
Accounting and Finance Foundations	Personal Finance (may substitute for Acct. & Fin. Foundations)
Principles of Entrepreneurship	Financial Management (may substitute for Acct. & Fin. Foundations)

# Engineering Career Pathways (STEM)

## Aerospace Engineering – CIP 14.0201.01

This pathway prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of aircraft, space vehicles, and their systems; applied research on flight characteristics; and the development of systems and procedures for the launching, guidance, and control of air and space vehicles. Aerospace engineers design primarily aircraft, spacecraft, satellites, and missiles. In addition, they test prototypes to make sure that they function according to design.

Course Offerings:

<u>Required</u>	<u>Optional</u> (choose 1)
Engineering I – PLW100	Engineering Capstone – PLW295
Engineering II – PLW125	AP Computer Science Principles – PLW295
Aerospace Engineering – PLW200	AP Computer Science A – CIT149b

# Information Technology Pathways

## Computer Programming – CIP 11.0201.01

The Computer Programming pathway courses will prepare students to design and create apps, as well as troubleshoot the latest programming languages used in industry. It is suggested that students complete the pathway with the four following courses: Computer Literacy, Computational Thinking, along with targeted courses for specific programming language(s) or Project-Based Programming as capstones. Upon completion of this career pathway, students will be prepared for an entry level position in the IT field or continue their education in computer programming.

Course Offerings:

Digital Literacy
Computational Thinking
AP Computer Science Principles
Visual Basic I
AP Computer Science A
Project-Based Programming