NEW VISTA HIGH SCHOOL
AGRICULTURE

Are you interested in shaping the future of sustainable food production? Our CTE Agriculture pathway focuses on key areas like agriculture, horticulture, soil science, and urban farm management. With hands-on training and real-world projects, you'll learn how to optimize crop growth, manage soil health, and implement innovative urban farming techniques. Join us to cultivate your skills and contribute to a greener, more sustainable future in agriculture!

COURSE PROGRESSION (Y=YEARLONG, S=SEMESTER)

YEAR 1	YEAR 2	YEAR 3	YEAR 4
Introduction to Agriculture (S) Intro to Ag (S) + Horticulture (S)	Principles of Horticulture (S) Soil Science (S) + Urban Farm (S)	Soil Science (S)	Urban Farm Management (S)

COURSE INFORMATION

INTRODUCTION TO AGRICULTURE

An introductory course for first year agriculture education students. This course introduces students to the foundational principles of agriculture, food and natural resources. Students will gain knowledge in career development, leadership, personal development, communications, animal science, plant science, natural resources, food science, power/structure and agribusiness. The local food movement, sustainable agriculture, sustainable animal husbandry/butchery, and human health with be key themes throughout the course with many field trips to local businesses and producers involved with agriculture in the Boulder Valley.

SOIL SCIENCE

This course focuses on formation, physical properties, chemical properties, land classification and management of soils emphasizing conditions that affect plant growth. There will be an emphasis on raising animals for soil building, composting, land management practices to conserve soil, and hands-on practical experience building soil in the Community Garden space. A field trip to a preserved portion of Colorado prairie will give students an idea of unregulated, natural soil along with a field trip to a Soil Research lab which will solidify the idea that a sustainable future lies beneath our feet.

ACCELERATE
BOULDER VALLEY SCHOOL DISTRICT

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COURSE INFORMATION (CONT.

PRINCIPLES OF HORTICULTURE

This course is designed to introduce students to the horticulture industry. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, soil science, growing greenhouse crops. Students will develop a green thumb and take field trips to the most meticulous greenhouse complex locally along with a field trip to a regenerative farm to see expert soil building and the management of hundreds of species of plants for food production.

URBAN FARM MANAGEMENT

This course will focus on purpose, site identification, land access, soil quality, water resources, infrastructure for both indoor and outdoor growing operations, production strategies, market development, and financing as it applies to urban farming. This capstone course will integrate all concepts from previous courses in the Regenerative Agriculture Pathway and will allow students to produce food for their local community. In partnership with Boulder Parks and Rec, we will run a tent at the Wednesday Evening Boulder Farmers Market with a “pay-what-you-can” model to provide lower income families access to healthy, locally-produced fruits/vegetables.