Agriscience Pathways

CASE completer program requirements (4 credits minimum)

CASE Honors Introduction to Agriculture, Food and Natural Resources (1)
(Fall- Grade 10)

CASE Agricultural Science- Plant (1)
(Spring- Grade 10)

and/or

CASE Agricultural Science- Animal (1)
(Fall- Grade 11)

CASE Agricultural Science- Animal and Plant Biotechnology (1)
(Spring- Grade 11)

Agriculture, Business, Research, and Development (1)
(Fall-Grade 12)

Wildlife and Natural Resources completer program requirements (4 credits minimum)

CASE Honors Introduction to Agriculture, Food, and Natural Resources (1)
(Fall- Grade 10)

Agricultural Mechanical Technology (1)
(Spring- Grade 10)

Wildlife Management (.5)
(Fall- Grade 11. First quarter w/ CASE Agricultural science- Animal)

Environmental Conservation (1)
(Spring- Grade 11)

Ag Coop/Internship (.5)
(Grade 12)

Notices of non-discrimination

The Carroll County Public Schools (CCPS) is firmly committed to creating equal employment and educational opportunities for all persons with regard to its employment practices and in the provision of services, programs, and activities. The CCPS does not discriminate on the basis of age, color, genetic information, marital status, mental or physical disability, ancestry or national origin, race, religion, sex, or sexual orientation. The CCPS provides non-discriminatory access to school facilities in accordance with its policies and regulations regarding the community use of schools (including, but not limited to, the Boy Scouts). The following person has been designated to handle inquiries regarding the nondiscrimination policies:

Gregory J. Bricca
Director of Research and Accountability
125 North Court Street
Westminster, Maryland 21157
410.751.3068

For more information, contact:
Your school counselor or career coordinator

Empowering teachers for student success

CASE
Curriculum for Agricultural Science Education

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Agriscience Education

Carroll County
Public Schools

Building the Future
The CASE Animal pathway curriculum is delivered through a sequence of four classes: CASE – Honors Intro to Agriculture, Food, and Natural Resources, Agricultural Sciences—Animal, Animal and Plant Biotechnology, and Agriculture Business, Research, and Development. These courses are designed to provide students with the knowledge and understanding of agricultural sciences in animals.

Major Units of Study:
~ Anatomy and physiology of animals
~ Animal digestion and nutrition
~ Reproduction and breeding/genetics
~ Genetic engineering and modification
~ Diagnostic testing
~ Common diseases of animals
~ Handling and housing of animals
~ Veterinary practices

Related Careers:
~ Biotechnologist
~ Genetic engineer
~ Livestock production
~ Veterinarian
~ Veterinary pathologist
~ Veterinary technician

The CASE Plant pathway curriculum is delivered through a sequence of four classes: CASE – Honors Intro to Agriculture, Food, and Natural Resources, Agricultural Sciences—Plant, Animal and Plant Biotechnology, and Agriculture Business, Research, and Development. These courses are designed to provide students with the knowledge and understanding of agricultural sciences and industry related to plants.

Major Units of Study:
~ Environmental requirements of plants
~ Types of plants
~ Plant propagation
~ Genetic engineering and modification
~ Plant tissue culture
~ Fertilizers
~ Plant pest identification and control
~ Greenhouse management and production

Related Careers:
~ Horticulturist
~ Plant breeder
~ Genetic engineer
~ Wholesale growers
~ Crop production
~ Related retail industry

The Wildlife & Natural Resources curriculum is delivered through a sequence of five classes: CASE – Honors Intro to Agriculture, Food, and Natural Resources, Agriculture Mechanical Technology, Wildlife Management, Environmental Conservation and Work Based Learning Experience. These courses are designed to introduce students to wildlife of the Eastern United States and the diverse areas of the environment.

Major Units of Study:
~ Species identification
~ Habitat requirements, and ecosystem / food chain interactions
~ Public policies and government laws pertaining to wildlife management.
~ Policies and conservation management practices.
~ Land use, energy resources, and the recreational use of these resources
~ Surveying/structural layout
~ Mechanical applications

Related Careers:
~ Conservation scientist
~ Forester
~ Environmental scientist
~ Park ranger