

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 Agricul-
ture, 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)

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

CASE

Curriculum for Agricultural
Science Education



Empowering teachers
for student success

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

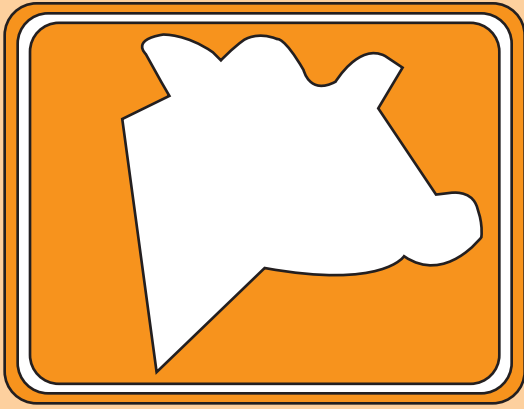
Agriscience Education



Building the Future



CARROLL COUNTY
PUBLIC SCHOOLS



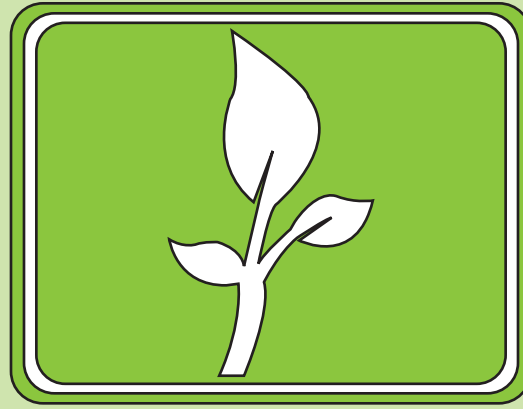
The CASE Animal pathway curriculum is delivered through a sequence of four classes: CASE –Honors Intro to Agriculture, Food, and Natural Resources, Agricultural Sciences—Animal, Animal and Plant Biotechnology, and Agriculture Business, Research, and Development. These courses are designed to provide 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



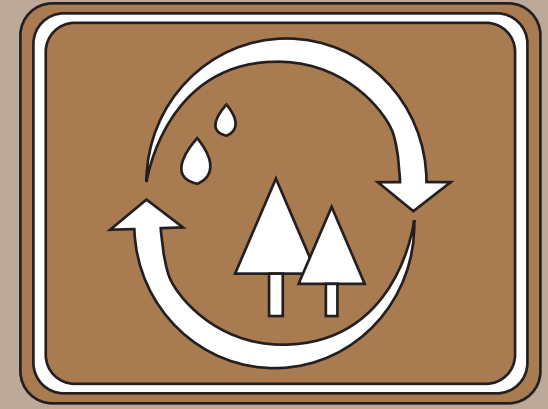
The CASE Plant pathway curriculum is delivered through a sequence of four classes: CASE – Honors Intro to Agriculture, Food, and Natural Resources, Agricultural Sciences—Plant, Animal and Plant Biotechnology, and Agriculture Business, Research, and Development. These courses are designed to provide students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