

Agriscience Pathways

CASE Animal or Plant completer program Requirements (4 credits)

- CASE Honors Introduction to Agriculture, Food and Natural Resources (1) (Grade 9 or 10)
- CASE Agricultural Science- Plant (1) (Grade 10 or 11)

and/or

CASE Agricultural Science- Animal (1) (Grade 10 or 11)

- CASE Agricultural Science- Animal and Plant Biotechnology (1) (Grade 11)
- Agriculture, Business, Research, and Development (1) (Fall-Grade 12)

CASE Natural Resources completer program requirements (4 credits)

- CASE Honors Introduction to Agriculture, Food, and Natural Resources (1) (Grade 9 - 10)
- CASE Natural Resources (1) (Grade 10 or 11)
- CASE Environmental Science Issues (1) (Grade 11)
- Agriculture, Business, Research, and Development (1) (Fall-Grade 12)

For more information,
contact:
Your school counselor

CASE
*Curriculum for Agricultural
Science Education*



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Gregory J. Bricca

AGRICULTURE EDUCATION COMPLETERS





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



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

Related Careers:

- ~Horticulturist
- ~Plant breeder
- ~Genetic engineer
- ~Wholesale growers



The **CASE Natural Resource pathway** curriculum is delivered through a sequence of four classes:: CASE –Honors Intro to Agriculture, Food, and Natural Resources, Natural Resources, Environmental Science Issues , and Agriculture Business, Research, and Development. These courses are designed to introduce students to exploring the natural world while researching, analyzing, and proposing sustainable solutions to environmental issues

Major Units of Study:

- ~Conservation, Preservation, Exploitation
- ~Soil, Air, and Water
- ~Flora and Fauna
- ~Biodiversity
- ~Land use, energy resources, and the recreational use of these resources

Related Careers:

- ~Conservation scientist
- ~Forester
- ~Environmental scientist
- ~Park ranger