

Discover AGRISCIENCE

Industry Overview

Have you ever considered just how many careers are related to the field of agriculture? One in five jobs can be directly tied to agriculture, which is Ohio's largest industry. In this program, students learn about the basics of the agriculture industry - business, growing plants, and raising animals.

Students will engage in growing soil and hydroponic plants in the greenhouse and raising animals in the animal lab while at school. Students are also highly engaged in community service, leadership development, and competitions. The courses offers a total of 1.25 credits per year, and students have the opportunity to earn a total of 6 college credits through taking Agriscience Education courses.

Student Organization

Agriscience students participate in FFA, which is a dynamic student leadership organization. As FFA members, students have the opportunity to travel, compete, and participate in leadership and community service events. The FFA is a vital component of Agriscience Education that helps students develop the soft skills that employers are actively seeking in today's workforce.

bt Butler
Tech
in Edgewood City
Schools

Coursework

- Agriscience
- Agriscience Business for Agricultural and Environmental Systems
- Animal Science
- Greenhouse and Nursery Management



"People should take an agriscience class because agriscience effects everyone in the world one way or another. I think it's important that people learn more about it and understand how much effort is put into agriscience for the benefit of the world!"

Student, *Agriscience*

Butler Tech Course Offerings at Edgewood

Agriscience (9th grade)

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Agriscience Business for Agricultural and Environmental Systems (12th grade)

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

"I think a benefit of being in agriscience is that the class opens doors to all of the job opportunities agricultural science has to offer."

Allie Warre, *Agriscience*

***Discover* Agriscience through Butler Tech and pursue a career that's right for you.**

Animal Science (10th and 11th grade)

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

Greenhouse and Nursery Management (10th and 11th grade)

Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized.



Butler Tech connects high school students to career technical education in more ways than ever. Complete your traditional academic courses in your school and enhance your educational experience with career-focused labs and on-the-job training. Each moment in a Butler Tech career technical course is a step toward building your future.



See your guidance counselor for registration information.

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