

2023-2024 Annual Report

Hinckley-Big Rock Agricultural Education Department

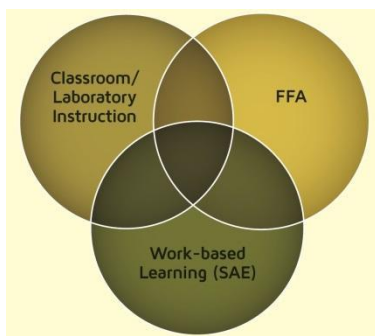
700 East Lincoln Highway
Hinckley, IL 60520

Hinckley-Big Rock Agriculture Department Mission Statement:

The mission of the Hinckley-Big Rock Agriculture Department is to provide for the development of student career and educational skills in the areas of agricultural and horticultural sciences in order to prepare them for success in an agricultural occupation or advanced education.

The National FFA Organization Mission:

FFA makes a positive difference in the lives of students by developing their potential for **premier leadership, personal growth, and career success** through agricultural education.



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HBR Agriculture Department Annual Report

I. Scope of the Hinckley-Big Rock Agriculture Department

The Hinckley-Big Rock High School Agriculture Department include a classroom, shop laboratory, greenhouse with hydroponics system, land laboratory, teacher office, tool and supply/storage area, apple orchard, to soon be completed outdoor building, and computer lab area. The classroom has technology including a LCD Projector, and an electronic projection microscope. Within the mechanics shop, there are 3 Arc Welders, 3 MIG Welders, 1 plasma cutter, 1 CNC plasma cutter, and 3 Oxyacetylene Tank Systems. Additionally, there is a small engines, and wood working lab area within the shop. The Greenhouse is vitally important, and is used to produce poinsettias, annual/perennial bedding plants for a spring sale as well as a learning lab for the Horticulture classes. The land lab is used to produce corn and soybeans on a rotating basis.

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Agriculture Department Goals

The Goals and Objectives of the Hinckley-Big Rock Agriculture Department are:

- Prepare students to enter the workforce or postsecondary education as productive citizens.
- Develop the agricultural knowledge of our students and members of the community.
- Promote community service and awareness through activities designed to improve the quality of life for others.
- Prepare students for careers and further education in the areas of agricultural sciences.
- Develop the leadership and communication skills of students in order to prepare them for success after high school graduation.

Course Enrollment

Course Enrollment by Grade Level

***Numbers not available yet to the teacher for 2024-2025 school year.**

Course Name	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Introduction to Agriculture *	13	18	14	19	32	18	28	24	13
Basic Horticultural Science * #	26	9	16	14	8	17	18	23	21
Wood Working	19	23	22	21	19	0	22	10	20
Welding/Small Engines	16	23	20	17	10	0	20	12	20
Pre-Veterinary Science*#	0	12	16	0	13	24	0	0	0
Agricultural Business Management ^ #	7	13	9	24	19	19	0	15	11
Total Enrollment	81	109	97	108	101	78	88	84	85

* Stands for a course that fulfills academic graduation requirements in science.

^Stands for a course that fulfills academic graduation requirements in consumer education.

#Stands for course that earns dual credit

New Course for next year at the high school- Entrepreneurship, see appendix for course description.

Hinckley-Big Rock FFA Chapter Component



The FFA is a national organization for students enrolled in agriculture and horticulture science programs. The mission of the organization is to promote premier leadership, personal growth, and career success. Membership within the organization is divided into active members, alumni membership, and honorary membership.

*The Illinois Department of Agriculture pays the fee for all IL programs.
Membership Summary: 100 members

The FFA Motto

2024-2025 Officer Team Members

Learning to Do

President- Aidan White

Treasurer-Elizabeth Baumann

Doing to Learn

Vice President- Georgia Allen

Sentinel- Carmela Key

Earning to Live

Secretary- Matthew Badal

Reporter- Natalie Wilkening

Living to Serve

Historian- Emma Key

2023-2024 Officer Team Members

President- Harry Nier

Treasurer-Elizabeth Baumann

Vice President-Natalie Wilkening

Sentinel- Carmela Key

Secretary- Lily Day

Reporter- Josh Badal

Supervised Agricultural Experience Component

SAE stands for “Supervised Agricultural Experience.” The purpose of the SAE is to provide the agriculture student with an opportunity to explore agricultural career interests. A main focus of the SAE is to develop record keeping and decision making skills. Students who maintain an SAE have the opportunity to exhibit at fairs to earn money, while gaining additional showmanship experience. SAE record books are used as the basis for awarding FFA Proficiency Awards as well as the Degrees of membership awarded through FFA.

HBR Agriculture Department SAE Statistics:

SAE Participant Statistics	Number of:
Entrepreneurship SAE	10
Placement SAE	16
State Degree Recipients	3
American Degree Recipients	1
Proficiency Award Participants	1
Section Winners	1

Professional Activities of the Agriculture Instructor

A. Professional Development Meetings and Conferences designed to improve classroom instruction or overall Agriculture Department activities:

1. Fall/Winter Agriculture Teachers Meeting
2. VALEES Conference
3. Curriculum writer on a committee to revise Biology to have agricultural phenomenon. This is a weekly project with science and agricultural teachers.
4. Presented at Illinois Science Teachers Conference, and at Ground Zero Leadership Conference.
5. Mentor Coaching for Ag Teachers for the IEA (IL Educators Association)

B. Professional Organization Memberships and School Committees

1. Illinois Association of Vocational Agriculture Teachers (IAVAT)
2. National Association of Agricultural Educators (NAAE)
3. Illinois Association of Science Teachers (ISTA)
4. Illinois Association of Career and Technical Educators
5. Association of Career and Technical Educators
6. National Education Association/ Illinois Education Association
7. Hinckley-Big Rock CTE Department Chair/VALEES representative

C. Planned Summer Activities

IL State FFA Convention	June
IL State Ag Teachers Conference	June
County Fair	Kane Co. July
SAE Visits/Officer Training	H-BR School District June- August
Greenhouse Maintenance	H-BR School District June- August
Curriculum Evaluation and Organization	H-BR School District June- August
Agricultural Building Construction	H-BR School District June-August

State Convention and Ag Teachers Conference will be attended by new Ag Teacher Zoey Dye-Planning to have conversation on program development.

Advisory Council

The Hinckley-Big Rock Advisory Council is a group of volunteers related to the Agriculture Department through business, education, and/or industry. The group serves to provide recommendations for improvement and expansion of the Agriculture Department, such as curriculum changes, chapter goals, facilities, and fundraising activities.

Hinckley-Big Rock FFA Alumni Chapter

The HBR FFA Alumni Chapter serves as a type of “booster” club for the HBR FFA Chapter. Members of the chapter consist of parents, community members, and past FFA members, who work to help supplement FFA chapter activities.

A. FFA Alumni Meetings Highlights

The goal of the organization is to support Ag Ed through efforts:

- Volunteering for SAE contest judges
- Constructing new agricultural building
- Hosting fundraisers
- Aiding in the production on the agricultural plot
- Awarding Academic Scholarships for FFA Seniors
- Volunteering for any event or activity
- Job partners in classes to show industry examples
- Job shadowing opportunities



Reflections

In looking back at the 2023-2024 school year, the agricultural department has a solid foundation of our current programming and spent much of the year envisioning on how to successfully grow the program in all aspects, by learning from other program models. Highlights for this year are noted below:

Achievements in FFA

- Performed and completed successful FFA Week, Banquet, and annual programming (Sandwich Fair, Plowing Match, Safety Day)
 - Highlighted and researched new programming.
- Increased our agricultural literacy program-high school agricultural classes taught kindergarten to 4th grade lesson working cooperatively with Dekalb Co Farm Bureau for training and supplies.
- Organized and shipped two pallets of computers to TechLit Africa. CEO, Tyler Cinnamon spent time with our students talking about the international business market.
- Updated communication methods with the use of Canva, QR codes, and printed publications for a variety of audiences.
- Collaborated with FCAE (Facilitating Coordinating Agricultural Education) project of ISBE, on evaluation and researching areas of growth and need within community.
- State FFA Degree Recipients
 - Aidan White
 - Carmela Key
 - Natalie Wilkening
- American FFA Degree recipient
 - Bridget Wilkening

Achievements in the Classroom

- Continued enrollment in dual credit offers to 9 credits, in 3 classes (Basic Horticulture, Pre-Veterinary Science, and Agricultural Business Management)
- Improved lab facilities:
 - Continued new agricultural building project.
 - Thank you for your continued support
- Agricultural Plot- 2023-2024 Crop will be corn- 26 varieties.
- State of the art lab spaces, and opportunities for students.
- Continued to utilize greenhouse through classes, and community sales.
 - Invest if POS (point of sale technology) have had conversations with district.
- Supported more personalized approach to student projects- Using students interests, and funds of knowledge to create impactful learning. For example students who have landscaping experience, sports interests, or students who are driven in music- we build, make, and design to support those passions.
- Hosted a community safety day/petting zoo for prek-8th grade students and community. Seeking input from our first responders on how to increase impact of program.

Goals for 2023-2024

- Create periodic career focus events at new agricultural buildings.
- Successful launch the Middle School FFA Program
 - Design successful courses, and leadership opportunities for all students.
 - Appreciate ongoing dialogue, and input with administration.
- Create communication tools that can work for both buildings.
 - Mentoring new agricultural teacher Zoey Dye
- Launch new high school course- entrepreneurship- creating business opportunities.
 - Utilize new building as a place to implement curriculum- tentatively design a selling point for seasonal agricultural products.

- Partner with district/building to see a more balanced communication all activities on social media, and digital communications. Overall increase presence through school communication tools. Idea- Quarterly reflections/predictions for community and stakeholders.

Facility Goals

- Inventory and maximize class lab materials among both buildings, and teachers.
- Facilitate last steps to complete building construction.
- Maintenance of equipment/Lab plans
 - Replace glazing of the greenhouse.
 - Evaluate ventilation/exhaust fans for the greenhouse.
- Appreciate working with maintenance/grounds, and transportation mechanic in facility and class support. They have been a resource as I keep expanding my knowledge of equipment and how to use it to create programing for students. They are a vital part of my PLC (Professional Learning Community).

Appendix

A. Course Titles and Descriptions

Introduction to the Agricultural Industry Grades: 9-12 Credits: 1.0

This orientation course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **This Class may be used towards the Science requirement.**

Woodworking Grades: 10-12 Credits: 0.5

This advanced course focuses on the knowledge, hands-on skills, and workplace skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blueprint reading, surveying, construction skills in carpentry, concrete, block laying, drywall and painting. Careers such as agricultural engineers, carpenter, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. This class may be repeated with the consent of the instructor.

Basic Horticultural Science Grades: 9-12 Credits: 1.0

This course is designed to introduce students to the horticulture industry and provide them with basic plant science knowledge that can be further developed in advanced horticulture courses. Major units of instruction include horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, growing greenhouse crops, and floral design. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. This class may be repeated with the consent of the instructor. **This class may be used toward the Science requirement. This course is dual credit with Highland Community College- 3 college credits.**

Pre Veterinary Science Grades: 10-12 Credits: 0.5

This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. This class may be repeated with consent of instructor. **This class may be used toward the Science requirement. This course is dual credit with Highland Community College- 3 college credits.**

Small Engine Repair and Welding Grades: 10-12 Credits: 0.5

This course will concentrate on expanding student's knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, internal combustion engines, hydraulics, employability skills, maintenance, and welding, (arc, mig, and oxyacetylene welding and cutting. Computer aided plasma cutting instruction may also be available. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. This class may be repeated with consent of instructor.

Agricultural Business Management Grades: 10-12 Credits: 1.0

This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **This class may be used towards consumer education requirements. This course is dual credit with Highland Community College- 3 college credits.**

Entrepreneurship Grades: 10-12 Credits 1.0

Entrepreneurship courses acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities or ownership, business and financial planning, finance and accounting, and communication. Participation in student organization activities is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

Supervised Agricultural Experience I Grades: 9-10

Supervised Agricultural Experience II Grades: 11-12

Credits: 0.50 per year

This orientation program is for students in the grades 9-10 (SAE I) or 11-12 (SAE II). Students receiving credit in this area must be enrolled in an approved agricultural program sequence. Individual students will have a minimum of one approved project or acceptable plan for doing so. Supervised study, project record book work, training plans and agreement, report writing, and instructor project visitation and supervision are essential of the supervised occupational experience as well as basic employability and transition skills and work ethic. SAE II has similar requirements but higher expectations for more in-depth work. FFA membership is required. This is an independent study class and requires instructor permission.

This course is designed to establish knowledge and skills in various agricultural careers. Students will gain credit by establishing a project at their home, at a local business, or at their school usually after

normal school hours. Example projects may include, but are not limited to: working at a garden center, raising vegetables/grain/livestock, conducting Agri-Science experiments in a greenhouse, and training horses at a stable. Students will be required to verify their experiences by keeping written or computerized records including: business agreements, budgets, inventories, daily activities, hours worked, income and expenses, total earnings, depreciation, and net worth. In addition, SAE lessons are integrated in each agricultural course. SAE participation can lead to full time employment, scholarships, and awards through the FFA.