AG LEADERSHIP IN ANIMAL PRODUCTION

Leaders in animal production conduct research to develop better ways to produce and process meat, poultry, eggs, and milk. Much of the research focuses on the health and breeding of livestock, but domestic animals, such as cats and dogs, are also a research concern. Animal scientists are experts in genetics, nutrition, reproduction, and animal production management. Developing new characteristics to introduce into animals (such as chickens that lay more eggs) and reducing the cost of raising animals and processing animal products are other goals of workers in this pathway.

The farming and food production industry spends much money on breeding, raising, and feeding animals. The industry will continue to be interested in more efficient, less costly methods of raising animals. Therefore, employment of animal scientists at research firms will be needed to study new methods and develop healthier animals.

HIGH SCHOOL PATHWAY CLASSES

**BASIC AGRICULTURAL SCIENCE** introduces the major areas of scientific agricultural production and research; presents problem solving lessons and introductory skills and knowledge in agricultural science and agri-related technologies. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

**ANIMAL SCIENCE TECHNOLOGY/BIOTECHNOLOGY** is designed to introduce students to the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. This course introduces scientific principles applied to the animal industry; covers reproduction, production technology, processing, and distribution of agricultural animal products. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities. This course meets the 4th science requirement and is recognized by the board of regents as such.

**AGRIBUSINESS MANAGEMENT & LEADERSHIP** provides a foundation for students interested in pursuing a degree in agribusiness through post-secondary study or to enter the industry upon graduation from high school. The student will demonstrate competence in the application of principles and practices of agribusiness management and leadership. The course will help students build a strong knowledge base of the agribusiness industry as they study agribusiness types, business management, financial analysis, communications, agricultural law, leadership and teamwork, ethics, and agricultural economics.

CAPSTONE: WBL INTERNSHIP

**WBL (WORK-BASED LEARNING)** connects skilled, knowledgeable and driven students to local businesses every year. Students who participate in the AG, Food and Natural Resources program and have been selected to participate in WBL will leave school early to work with our fantastic business partners. Benefits to students include a chance to put skills learned in the classroom to use in an authentic setting, getting a competitive advantage on their career and networking with industry leading professionals all while still in high school. www.hallcowbl.org

CAREER TECH STUDENT ORGANIZATIONS

**FFA:** Today, the National FFA Organization remains committed to the individual student, providing a path to achievement in premier leadership, personal growth and career success through agricultural education.

FFA continues to help the next generation rise up to meet those challenges by helping its members to develop their own unique talents and explore their interests in a broad range of agricultural career pathways. So today, we are still the Future Farmers of America. But, we are the Future Biologists, Future Chemists, Future Veterinarians, Future Engineers and Future Entrepreneurs of America, too.

POTENTIAL CAREERS

- Agricultural Inspectors
- AG Science Educators
- Agricultural Technicians
- Agricultural Managers
- Butchers & Meat Cutters
- Buyers & Purchasing Agents
- Chemical Technicians
- Farm & Ranch Managers
- Food Cooking Machine Operators
- Graders & Sorters
- Slaughters & Meat Packers
- Veterinarian

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**AG LEADERSHIP IN ANIMAL PRODUCTION**

**CAREER PATHWAY - PLAN OF STUDY**

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**GRADUATION REQUIREMENTS**

**ENGLISH/LANGUAGE ARTS**
4 Units Must Include:
9th Grade Literature & American Literature

**SOCIAL STUDIES**
3 Units Must Include:
World History, US History, Government & Economics

**MATHEMATICS**
4 Units Must Include:
GSE Algebra I, GSE Geometry & GSE Algebra II
+ one additional GSE/AP/IB/DE Math course

OR
GSE Accelerated Algebra I/Analytic Geometry A,
GSE Accelerated Geometry B/Algebra II, GSE Precalculus
+ one additional GSE/AP/IB/DE Math course

**SCIENCE**
4 Units Must Include:
Physical Science or Physics; Biology;
Chemistry, Earth Systems, Environmental Science or AP/IB course
+ one additional Science course

**HEALTH & PERSONAL FITNESS**
1 Unit Must Include:
1/2 unit of each

**CAREER, TECHNICAL & AGRICULTURE EDUCATION (CTAE)**
3 Units Must include:
Basic AG Science, Animal Science Tech/Biotech,
Agribusiness Mgt. & Leadership

**ELECTIVES**
4 Units
*Students planning to attend most post-secondary institutions must take 2 units of the same modern language.

**TOTAL UNITS REQUIRED**
23 Units

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**PERSONAL APTITUDES**

**ACTIVITIES THAT DESCRIBE WHAT I LIKE TO DO:**
- Learn how things grow and stay alive.
- Make the best use of the Earth’s natural resources.
- Hunt and or fish.
- Protect the environment.
- Be outdoors in all weather.
- Operate & maintain equipment & machinery.

**PERSONAL QUALITIES THAT DESCRIBE ME:**
- Self-reliant
- Nature lover
- Physically active
- Planner
- Creative problem solver

**WANT MORE INFORMATION ON YOU?**

YouScience is the science of YOU – how your mind is wired, what makes you tick, the skills and knowledge that set you apart. You have talent and there’s a path that’s right for you – we can help you find it.

Login to Infinite Campus and locate the SLDS Portal link on the left. Once logged in, click on “My Career Plan” then choose “Go to YouScience”.

**WHAT YOU LEARN IN SCHOOL MATTERS**

You’re learning skills and knowledge that can make you a qualified candidate for in-demand careers. Industry-recognized certifications, available to all pathway students, are great signals to employers that you have the skills they’re looking for. Certifications help validate what you know, so other people know, that you know it.

**QUESTIONS?**

Contact your CTAE teacher, WBL Coordinator or School Counselor

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**PATHWAY TO FUTURE CAREER OPTIONS**

**HIGH SCHOOL**

Pathway Courses
- Basic AG Science
- Animal Science Tech/Biotech
- Agribusiness Mgt. & Leadership

Capstone
- WBL Internship
- Dual Enrollment

**POST-SECONDARY**

Technical College
- Certificate
- Diploma Program
- Degree Program

4 Year College/University
- Bachelor Degree
- Masters Degree
- Graduate Studies

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