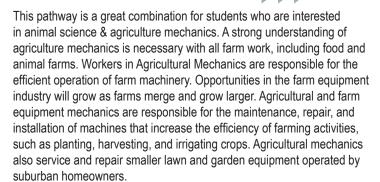


### ANIMAL/MECHANICAL SYSTEMS >>>



The farming industry will continue to be interested in more efficient, less costly methods of raising animals. Therefore, employment of animal scientists with agriculture mechanics skills will be needed to study new methods of more efficient farming 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.

AG MECHANICS TECHNOLOGY I is designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology which may include wood working, agricultural structures, electrical wiring, electric arc welding, oxy/fuel cutting and welding processes, and power equipment operation and maintenance. Learning activities include information, skill development and problem solving. Classroom and laboratory activities are supplemented through FFA supervised agricultural experiences, leadership programs and activities.

AGRICULTURAL ANIMAL PRODUCTION & MANAGEMENT provides instruction in establishing and managing agricultural animal enterprises; includes breeding, feeding, caring for and marketing beef and dairy cattle, horses, swing, sheep, and poultry.

## 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

Engineers and Future Entrepreneurs of America, too.

Chemists, Future Veterinarians, Future

### POTENTIAL CAREERS >>>

- Mechanical Engineer
- Control & Valve Installers
- Mechanical Engineering Technicians
- Animal Scientist
- Agricultural Technician
- Animal Control Worker
- Farm & Ranch Managers
- · Soil & Plant Scientist
- Animal Breeders
- Agricultural Managers
- · Biological Technician
- Crop Farmworkers



# ANIMAL / MECHANICAL SYSTEMS

**CAREER PATHWAY - PLAN OF STUDY** 

## 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

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, Agricultural Mechanics Technology 1, Agricultural Animal Production & Mgt.

#### **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

## 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
- Planner
- Nature lover
- · Creative problem solver
- Physically active

#### 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 -ြင့္လင္မိ 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.

#### **OUESTIONS?**

**POST-SECONDARY** 

Contact your CTAE teacher, WBL Coordinator or School Counselor

## PATHWAY TO FUTURE CAREER OPTIONS



#### HIGH SCHOOL

Capstone

**Technical College** 

4 Year College/University

**Basic AG Science Agricultural Mechanics Technology 1** Agricultural Animal Production & Mgt.

**Pathway Courses** 

**WBL** Internship **Dual Enrollment** 

Certificate **Diploma Program Degree Program** 

**Bachelor Degree Masters Degree Graduate Studies** 





