

# Morton Ranch High School

# Agricultural Sciences



Course Selections  
for 2016-2017

## Principles of Agriculture

9th Grade (1 credit)

This is an intro class that explores many aspects of Agriculture! We start off the year by exploring the FFA and all the opportunities it holds including LDE'S, CDE'S, scholarships and SAE's. We then switch gears and move on to some wildlife and natural resources. We will wrap the semester by working on a small wood project in the shop. We will start off the Spring semester discussing animal science and livestock judging as well. We will finish the semester with food science and ag mechanics. We save these two subjects for the end because they tend to be very fun and active which is great for the end of the year!

## Wildlife

10th-12th Grade (1/2 credit)

Pre-Requisite: Principles of Agriculture

Learn about management of game and non-game wildlife species and fish. Students will be able to identify different species of ducks, fish, and other wildlife animals. Students also have the opportunity to get boaters and hunters safety certification.

Hands on projects include building your own fishing pole.

## Agribusiness Management & Marketing

10th-12th Grade (1 credit)

Pre-Requisite: Principles of Agriculture

Students will learn and use economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness.

## Equine Science

10th-12th Grade (1/2 credit)

Pre-Requisite: Principles of Agriculture

This course has been developed to teach you all knowledge and skills related to horses. We will discuss all horse-related aspects of agribusiness including: nutrition, reproduction, health management of horses. From Miniatures horses to the massive draft breeds, we will cover everything about horses so come on and horse around with the MRHS Mavs Equine Science class.

## Advanced Animal Science

11th-12th Grade

(1 credit also counts as a science credit)

Pre-Requisite: Principles of Agriculture

If you have ever wanted to experience the fascinating life of a Veterinarian, you should definitely sign up for this class. From dissecting beef hearts, looking at lungs, growing bacteria in Petri Dishes and learning animal systems in-depth while you learn the hands-on skills it takes to be a vet.

## Livestock Production

10th-12th Grade (1/2 credit)

Pre-Requisite: Principles of Agriculture

This course was developed to teach you knowledge and skills related to animal systems and the workplace, career opportunities, and various industry expectations. Throughout the course of this semester we will cover the following animal species: beef cattle, dairy cattle, swine, sheep, goats, and poultry. You will be amazed of the impact livestock have on our daily lives.

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## Floral Design

10th-12th Grade (1 credit)

Pre-Requisite: Principles of Agriculture

Do you like flowers and creating things from scratch? Floral design is a fun class to create flower designs while learning the techniques it takes to become a florist. You will be given an opportunity to "Create your own wedding" in a portfolio throughout the semester.

## Small Animal Management

10th-12th Grade (1/2 credit)

Pre-Requisite: Principles of Agriculture

All you ever wanted to know about small animals you will learn in this class.

Hands on learning about management of small animals. Learn about health, nutrition, reproduction and anatomy as it relates to dogs, cats, rabbits and other small animals.

Projects include play doh representations of the anatomy of small animals.

## Ag Mechanics & Metal Technologies

10th-12th Grade (1 credit)

Pre-Requisite: Principles of Agriculture

Students will begin to learn about tool identification and shop safety. This will be followed by simple wood working and tools associated with the trade. We will also learn about ARC welding and have hands on lessons for teaching this trade. This is an excellent course to introduce students the Ag Mechanics laboratory.

## Ag Facilities Design & Fabrication

10th-12th Grade (1 credit)

Pre-Requisite: Principles of Agriculture

Students will continue their education in the welding field by learning how to STICK, MIG, and also begin to understand the process of TIG welding. Students will have hands on experience with building small metal projects and having the opportunity to attend welding contests and other activities. This is an excellent course for a student to further their Ag Mechanics knowledge and abilities in high school.

## Practicum in Agriculture

11th-12th Grade (2 credits)

Pre-Requisite: Principles of Agriculture and both Ag Mechanics classes

Students will become proficient in the field of welding through the MIG, STICK, and TIG WELDING processes. They will have the opportunity to build large projects and compete at major Ag Mechanic shows for prizes and scholarships throughout the year. This is an excellent course to prepare students for the work force.

## Professional Standards in Agriculture

10th-12th Grade

(1/2 credit also counts as a Speech credit)

Pre-Requisite: Principles of Agriculture

Students will learn personal development, leadership, group and interpersonal communication, employer-employee relations, and problem solving as it relates to agribusiness. Students will be prepared for employment in a variety of industries, especially agribusiness systems.

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## FFA

The FFA is the largest student led organization in the nation. We participate in various activities throughout the year, including but not limited to, LDEs, CDEs, raising animals, community service opportunities, and hold monthly chapter meetings. We have over 300 members within our chapter and would love to add your name to that list.



2015-2016 MRHS FFA Officers: Daniel Rodriguez, President; Laura Myerscough, Vice President; Cheyenne Murphy, Secretary; Evelyn Reyes, Treasurer; Jacob Anderson, Reporter; Tyler Hamilton, Sentinel; Jeffrey Johnson, Jr. Advisor; and Robbyn Brown, Historian.



FFA members at Eternal Food Ministry preparing care packages



Meat Evaluation CDE Contest



Our annual Easter Egg Hunt



Ag Mechanics Project being shown at a the Houston Livestock Show and Rodeo



2015 District LDE Contest at the Merrill Center