

AGRICULTURAL EDUCATION

The Agricultural Education Program is a course of study designed to prepare students for fields in mechanics, production, and business, plus advanced study in other areas. This entire program is composed of classroom instruction, shop work and FFA. Also included in this course is the supervised agricultural experience program. Completion of the program (minimum of 4 credits) would offer the students the opportunity to qualify for Ag and FFA scholarships plus have a well rounded education. In this book there is a flow chart showing the order of courses taken to complete the entire program.

The National FFA Organization has much to offer the student. Its purpose is to develop leadership qualities, citizenship, and respect for others. **All students in the agriculture education program are FFA members as well. Participation in outside activities is optional unless it is a required curriculum enhancement, ie field trips.**

9TH GRADE COURSES -

9th or 10th graders can enroll in these courses and must take these courses before any other ag courses. (Open to 9-10)

18001 Intro to Agriculture, Food, & Natural Resources .5

This is the beginner agriculture course. The Agriculture industry today is very exciting and constantly changing. Students will learn about a variety of Agriculture areas that include: FFA, small animal care, food industry, animals, leadership development, natural resources, agriculture technology, and horticulture. Highlights: Students will be given opportunities to participate in contests. This is the first course in progression of the ag education program. All students must take this course before taking any other courses.

18401 Fundamentals of Agriculture Mechanics .5

Pre-requisite Intro to AF&NR - Must take this course before any other shop courses (Open to 9-12)

Fundamentals of Agricultural Mechanics allows the student to develop fundamentals of mechanical processes as they relate to the areas of agricultural mechanics. Areas to be explored include tool sharpening, plumbing, wood and metal working, arc welding processes, oxy-acetylene processes, sketching, drawing, interpreting plans and using GPS to collect data. An emphasis will be placed on the development of orderly and safe lab procedures for many practical skills that will be developed. (Materials for major student projects will be provided by the student)

10th Grade Courses

10th-12th graders can enroll in this course after taking Intro to AFNR

18108 AG Companion Animals .5

Pre-requisite Intro to AF&NR (Open to 10-12)

This course is a great course for anyone from a loving pet owner to someone looking to go into Veterinary Science after graduation. It gives students an introduction to care, nutrition, and training of many companion animals / pets.

18101 Animal Science .5

Pre-Requisite Intro to AFNR

This course is designed to introduce students to care, nutrition, reproduction and evaluation of your domestic farm animals. Animals studied here are cattle, swine, sheep, horses, poultry, dairy, etc. A field trip to John Morrell's is included as part of this course if budget allows.

18404 Ag Metal Fabrication .5

Pre-requisite Intro to AF&NR and Fund Ag Mechanics (Open to 10-12)

This is an introductory welding course. It is designed to take all ranges of welding ability and make them better. We will learn about and practice Oxy Acetylene cutting, Wire Feed welding, arc welding, plasma cutting, and a brief introduction to Tig welding. (Materials for major student projects will be provided by the student)

11th Grade Courses

11th and 12th Graders can enroll in these courses after they have taken Intro to ANFR

18302 Ag Processing Technology .5

Pre-Requisites - Intro to AFNR and Animal Science or Companion Animals (Open to 11-12)

Topics covered are: changes and trends in the food processing industry; food and worker safety; food processing regulations; processed food classification; harvesting, selection and inspection techniques; food processing procedures.

18501 AG Wildlife & Fisheries .5

Pre-requisite Intro to AFNR and Companion Animals (Open to 11, 12)

This course is for the student who is interested in hunting, fishing, outdoor recreation, and environmental science. It is a fun course where we learn specie ID, laws and regulations, and environmental issues.

18051 Ag Introductory Plant Science .5

Pre-requisite Intro to AFNR (open to 11-12)

In this course students develop the necessary knowledge, skills and habits for entry level employment in production agriculture, research, turf management or horticulture. We will cover crop production, soils, pest management and biotechnology.

18403 Ag Structures .5

Pre-requisite Intro to AF&NR, Ag Mechanics, and Ag Metal Fabrication (Open to 11, 12)

This is the advanced woods / construction course. This course will cover mechanical drafting and computer aided drafting. Our focus is building, however we spend a little time on all factors in construction including concrete, fencing, etc. (Materials for major student projects will be provided by the student)

12th Grade Courses

Open to 12th graders. These courses are open to students who have take ag in grades 9-11 and would like to complete the entire ag education program. Must have taken Intro to AFNR.

18053 AG Horticulture .5

Articulated with Southeast Technical Institute

Pre-requisite Intro to AFNR (Open to 12)

This course is a plant science based class dealing with specifically the horticulture industry. The students will learn a background of the industry and the plant science basics, but will also be given a great hands-on opportunity of operating the agriculture department's greenhouse. Raising and marketing plants. It is a fun hands-on yet science based class. (Materials for major student projects will be provided by the student)

18201 Ag Business Sales & Marketing .5

Pre-Requisite Intro to AFNR (Open to 12)

Agriculture businesses sell and market their products, leading to many related positions at these businesses. Skills related to selling and marketing products greatly enhances the success of an employee in an agribusiness operation. Agribusiness Sales and Marketing is designed to provide students with skills that focus on job preparatory skills necessary for a career in ag sales, marketing, business or production.

18203 Ag Leadership and Personal Development .5

Must have taken all of the courses and instructor approval for this course. (Open to 12)

Agriculture Leadership is a class that takes everything you learned in the entire ag education program and wraps it all into one class. Instructor approval required for this course. All students must have a written project plan upon approval of enrollment. Class size is limited. FFA Membership is required. (Materials for major student projects will be provided by the student)

18406 Ag Advanced Ag Structures Technology .5

Must have taken all the ag courses and instructor approval for this course. (Open to 12)

This course is offered to meet more advanced needs in the agricultural structures industry. South Dakota demand is increasing with the shortage of certified electricians, plumbers, contractors and mechanics. This course will be designed to give students hands on project work relating to the ag mechanics courses they have taken in grades 9-11)