

Agriculture

Advanced Animal Science – Spring Semester

Agriculture Elective
5 credits

Recommended Prerequisite(s) **Agricultural Education/Agri-Science**

Course Description:

Open to 10, 11, 12 graders. This course provides an academically stimulating environment for students wishing to advance their understanding of animal science. In this course, students examine the interrelated human, scientific, and technological dimensions of livestock production. In addition, students expand their knowledge of the scientific and technological dimensions of resources necessary for animal production.

Advanced Horticulture – Fall Semester

Agriculture Elective
5 credits

Recommended Prerequisite(s) **Agricultural Education/Agri-Science**

Course Description:

Open to 10, 11, 12 graders. This fundamental course includes the study of job opportunities in the horticulture and plant science fields, general safety practices in the greenhouse, the properties of different types of soil media, the different structures and functions of plants, the proper methods of asexual and sexual plant propagation, the proper nutrition and watering techniques with greenhouse and other cultivated crops, the identification and selection of common plants in greenhouse and farm production, and the control of common greenhouse and farm diseases and pests. This course offers a balance of classroom study, individual research, and hands-on lab participation in the school greenhouse.

Ag Communications and Agribusiness – Year long course

Agriculture Elective
10 credit 5 each semester

Recommended Prerequisite(s) **Agricultural Education/Agri-Science**

Course Description:

Open to 10, 11, 12 graders. This course is for the advanced ag student who wants to learn about the world of work in the field of agriculture and agribusiness. Subjects to be taught include all aspects of communication including print media and advertisement, verbal media (radio and public speaking) and cyber media. Students will design, manage and maintain the FFA website. All aspects of farm and ranch management as well as business management will be covered, including but not limited to budgeting, inventory management, cash flow summaries, setting up a business plan and developing financial statements. Customer relations and sales skills will be taught. Students will gain hands on experience through apprenticeships at local businesses. Some of the class time will be spent dealing with activities that relate to the FFA. Students choosing not to involve themselves with the FFA will perform simulated activities that will still teach the content intended. Students in the class are strongly encouraged to join the FFA in order to take full advantage of the opportunities offered.

Agriculture Advanced Welding – Spring Semester

Agriculture Elective
5 credits

Recommended Prerequisite(s)

Basic Welding

Course Description:

Open to 10, 11, 12 graders. Advanced Welding is for the student who currently has basic welding skills. Course includes extended practice in shielded metal arc welding and MIG welding. Additional areas of study and practice include the introduction of tungsten inert gas welding. Application of these will be done in all positions. Technical skills and competence are increased. Upon successful completion of the course, students will be equipped for entry-level employment positions in welding. Safety skills and practices are required to be followed. Student generates grades through academic work and project work assessments. Consistent and punctual attendance is very important. Student should have the ability to work alone and with others.

Agriculture Basic Welding – Fall Semester

Agriculture Elective

5 credits

Recommended Prerequisite(s) Agricultural Education/Agri-Science

Course Description:

Open to 10, 11, 12 graders. Basic welding is an introductory course in shielded metal arc welding, MIG welding, and oxyacetylene welding and cutting. Welding will be done on light gauge metal in all positions. This course is intended to introduce a beginning student to the welding standards of the American Welding Society. Procedure, set-up, practice and application are done according to the AWS standard. Upon successful completion of the course, students will be familiar with this code and understand where to find needed information. Safety skills and practices required to be followed. A student generates grades through academic work and project work assessments. Consistent and punctual attendance is very important. Students should have the ability to work alone and with others.

Agricultural Construction I – Fall Semester

Agriculture Elective

5 credits

Recommended Prerequisite(s) Agricultural Education/Agri-Science

Course Description:

Open to 10, 11, 12 graders. This is a course designed to familiarize the student with basic theory and specialized skills. Skills will be developed in the areas of tool identification and safe use, carpentry, electricity, plumbing, masonry, fencing, painting and welding processes.

Agricultural Constructions II – Spring Semester

Agriculture Elective

5 credits

Recommended Prerequisite(s) Agricultural Education/Agri-Science

Course Description:

Open to 10, 11, 12 graders. This a technical, pre-employment laboratory-orientated course designed to introduce students to scientific principles and concepts, and to develop skills in agricultural mechanics. It includes subject matter and skill areas in: soil and water conservation; electrification; concrete and masonry construction; wood project construction, building planning and construction; small engine and agricultural equipment maintenance and repair.

Agricultural Education/Agri-Science

Agriculture Elective

10 credits 5 each semester

Recommended Prerequisite(s)

Course Description:

Freshmen course- 1st and 2nd Semesters. This is a year long course that is designed to introduce students to the sciences, technologies, and applied practices of the progressive agriculture/Agriscience industry. Emphasis is on an active learning environment enriched with technology and science-course skills needed for other courses in agriculture. The focus is to begin the preparation of students for further study and leading to successful careers in the agriculture industry.