

AGRICULTURE EDUCATION COURSE DESCRIPTIONS

Courses in this department satisfy the requirements of "Section F" of the Montana University System College Preparatory Program. (See Page 8.) All students planning to attend a college/university within the Montana University System must take two credits from the departments listed on Page 8.

0910 AGRICULTURE EDUCATION I **GRADE LEVEL: 9, 10, 11, 12**

CREDIT: 1

Agriculture Education I is an introductory course in which the student is taken on a journey through today's modern agricultural areas including plant science, animal science, soil science and environmental technology. The student will also learn basic cold metal work, woodworking and tool conditioning. The areas of leadership, public speaking, and parliamentary procedure will also be addressed. Computers will be introduced for agricultural recordkeeping.

0920 AGRICULTURE EDUCATION II **GRADE LEVEL: 10, 11, 12**

CREDIT:

1

PREREQUISITE: Ag

Ed I

Agriculture Education II is designed to emphasize skills in welding, electricity, and plumbing. A comprehensive view of range science and crop science will be covered, giving the basic technological concepts associated with today's agriscience. Aquaculture and water quality will be components of this class. Computers will be incorporated with the various segments of Agriculture Education II.

0930 AGRICULTURE EDUCATION III **GRADE LEVEL: 11, 12**

CREDIT:

1

PREREQUISITE: Ag

Ed I

In this course, students will take a more in-depth look at computers exploring the use of spreadsheets and databases as well as using telecommunications to obtain information. Veterinary science, farm management, machinery management, surveying, and carpentry are all dealt with in Agriculture Education III.

0940 AGRICULTURE EDUCATION IV **GRADE LEVEL: 12**

CREDIT:

1

PREREQUISITE: A

g Ed I

Upper-level students will develop financial planning skills and learn about agricultural economics. Students have an opportunity to use advanced skills to develop individual

projects. Preventative engine maintenance, machinery management, computer application, and animal science are also included in Agriculture Education IV.

0931 HORTICULTURE AND GREENHOUSE MANAGEMENT

GRADE LEVEL: 10,

11, 12

(Grade 9 with permission of Instructor and

Principal)

CREDIT:

$\frac{1}{2}$

Students will develop an understanding of basic plant science including: plant identification, plant structure, plant health, and soils. A major portion of the class will involve using the greenhouse to grow a variety of plants, both seedlings and cuttings. Unique experiments in plant and soil science will be conducted. Students will also be responsible for propagation, horticulture care, greenhouse operation and the sale of flowers and bedding plants. The class will be limited to fifteen students with preference given to Juniors and Seniors.

1021 AGRICULTURE METALS I

GRADE LEVEL: 10,

11, 12

CREDIT:

$\frac{1}{2}$

PREREQUISITE: Ag

Ed I or

Exploring Ind.

Technology

In this course students will develop basic skills in forge work, arc welding, and oxyacetylene welding. It will include construction of small metal projects and introductory welding methods.

1026 AGRICULTURE METALS II (Advanced)

GRADE LEVEL: 10,

11, 12

CREDIT:

$\frac{1}{2}$

PREREQUISITE: Ag

Metals I

In this course students will develop welding skills in arc, HPG, and oxyacetylene. Students will be required to complete large metal fabrication projects, TIG and MIG welding will be stressed and students will also learn to use a plasma cutter.