

Agriculture Mechanics Courses and Descriptions

Offered in the Big Northern Conference

Oregon High School

Basic Agricultural Mechanics

2 sem - 1 credit

Available to: Sophomore

Prerequisite: Intro to AFNR

In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skill in agricultural mechanics. Instructional areas include: basic shop safety, hand and power tool knowledge, fasteners, basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, basic plumbing, concrete, welding, construction, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experiences (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

Genoa Kingston High School

Agriculture Mechanics Grade 10-12 1 Credit

Prerequisite: Introduction to ANFR

This course will concentrate on expanding students' knowledge and experiences with agricultural mechanics utilized in the agricultural industry. Units of basic instruction included: small gas engines theory, engine teardown and rebuilding, arc welding, MIG welding, TIG welding, and metal cutting. Students will gain basic knowledge of each of these areas that can be applied to various industries. The FFA youth organization and student supervised agricultural education (SAE) experience programs will be taught and are a component of the 3- circle model of agricultural education.

Stillman Valley High School

Advanced Agricultural Mechanics* Grade 11-12 1 Year 1 Credit Weighted Dual Credit

*This course will concentrate on expanding students' knowledge and experiences with agricultural mechanics technologies utilized in the agricultural industry. Units of instruction included are: design, construction, fabrication, maintenance, welding, electricity/electronics, internal combustion engines, hydraulics, and employability skills. Careers of agricultural construction engineer, electrician, plumber, welder, equipment designer, parts manager, safety inspector, welder, and other related occupations will be examined. *This course is offered as Dual Credit through Highland Community College. (4 credits) (AGRI 182)*