

Print Date: 7/10/14
Course Objectives/Course Outline
Spokane Community College

Course Title: Shop Skills

Prefix and Course Number: AGGEN 151

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Develop basic skills in agricultural mechanics
- Develop safe and productive work habits
- Develop and understanding and appreciation of the engineering and mechanical processes involved in agricultural mechanics and shop work
- Recognize quality work in agricultural mechanics
- Develop dependable judgment in agricultural mechanics activities

Course Outline

- I. Orientation
 - A. Shop Tour
 - B. Safety
 - C. Fire and Extinguishers
- II. Electricity
 - A. Lighting Circuits
 - B. Grounding Systems
 - C. Outlets
 - D. 240-Volt Circuits
- III. Pipe Fitting
 - A. Galvanized Pipe
 - B. Copper Pipe Assembly
 - C. Plastic Pipe Construction
 - D. Plumbing System Design
 - E. Pipe Fitting Project
- IV. Concrete/Masonry
 - A. Forms and Tools
 - B. Mixing and Placing
 - C. Masonry Construction
- V. Metal Work
 - A. Measuring and Layout
 - B. Grinding
 - C. Drilling
 - D. Threading

VI. Tool Reconditioning

- A. Cleaning
- B. Handling Installation
- C. Sharpening Hand Tools
- D. Adjustments

VII. Building Construction

- A. Power and Hand Tools
- B. Materials and Methods
- C. Woodworking Project
- D. Identification