

Tech Prep Course Alignment

Course Title: Agricultural Mechanics; (Ag. Mechanics)

Course Number & Credits: AGRI (105) (3) credits

References: Small Gas Engines; Alfred C. Roth
 Small Engine Technology; William Schuster
 Modern Agricultural Mechanics; C. Burkybile & S.R. Burke
 OSPI, Career & Technical Education Curriculum Framework
 Agriculture & Science Education, CIP 01.0201 & 01.0205

Articulation Objective:

To create a new introductory career based course that will provide opportunities and curriculum options in the emerging fields of Agricultural Technologies and related industries. This course will provide seamless alignment with existing successful Wenatchee Valley College Agricultural Program Options and existing college industrial technology programs. This new agriculture course will provide seamless flexibility for area high school students and is integral to the success of the "first time" students to agricultural sciences and technologies studies.

Course Articulation & Alignment:

High School Title

Your Agricultural Course

Wenatchee Valley College

Agricultural Mechanics

AGRI 105

Course Competencies & Essential Learning's:

1. Define and describe various examples of modern Agricultural Mechanized Systems and Mechanical applications.
2. Describe the advances made in agricultural mechanization and technologies and outline how the advances have benefited the

consumer and improved living conditions throughout our state, the U.S. and world.

3. Provide examples of modern mechanized agricultural practices used to increase food production and environmental conservation locally, the northwest and around the world.
4. Describe the common safety concerns, hazards and precautions when working in an agricultural mechanized environment.
5. Demonstrate the safe use and application of small gas engines in agriculture.
6. Perform routine inspection and maintenance of the small gasoline engine, utilizing the correct measurement tools, instruments and safe practices.
7. Perform routine service, repair and operation of a small gasoline powered engine in a safe environment, utilizing proper tools, safe procedures and equipment.
8. Survey a variety of Agricultural Mechanize or Mechanical related opportunities and prepare a systemic series of flexible educational steps for securing the skills necessary for securing employment in an Agricultural Mechanization or related occupations.