



**TRINITY VALLEY COMMUNITY COLLEGE
NON-CREDIT COURSE SYLLABUS**

Course Rubric & Title: AGRI 8001 Agricultural Power Units

Class Location: AG 107

Instructor Name: Brent Bratton

Office Hours: 8 am – 1:30 pm

Office Location: AG 101

Office Phone & Alternate Phone #s: (903)67506354

TVCC E-mail or Alternate (optional) Address: bbratton@tvcc.edu

Electronic Communication:

TVCC students are REQUIRED to use either their TVCC Canvas account or their TVCC email account for all electronic communication. In order to ensure the identity of the student communicating electronically, TVCC faculty will not reply to student communication that is sent through an email account other than their TVCC issued email account or Canvas account.

Course Description: This course is designed to acquaint you with the principle concepts involved in the selection, operation, use, and maintenance of farm and ranch engines and tractors. It also includes basic economic factors and adaptability of selected engines and tractors for various uses.

Course Co- or Pre-Requisites: None

Textbook(s) & ISBN: Mechanics Training Manual, by Engine Service Association, 210 Allen Drive, Eaton, PA, 10341. Various manuals.

Required/Recommended Reading(s): None

Required Materials: Safety Glasses

Learning Outcomes:

Upon completion of this course, the student should demonstrate a master of the following learning outcomes:

- 1. Understand the principle concepts involved in the selection, operations, use, and maintenance of farm and ranch engines and tractors.**
- 2. Make logical analysis and use sound judgment when selecting power units for use on the farm and ranch.**

Course Requirements:

Attend and participate in class and labs

Complete class projects and lab assignments

Grades:

- 1. Presence in class, class participation, and interest is important to your overall class average**
- 2. Your attendance in labs is 30% of your final grade**
- 3. After 3 absences, 10 points will be deducted from the course grade for each additional class missed. Upon your sixth absence, you will be dropped.**
- 4. Your participation in class and labs will count 30% of your final grade.**
- 5. The skill assessment projects will total 40% of your final grade.**

Outline of Course Schedule:

- 1. An orientation to agriculture power and machinery**
- 2. The internal combustion engine**
- 3. The theory of engine operation**
- 4. Service and maintenance procedures**
- 5. Troubleshooting and failure analysis**
- 6. Engine adjustments**
- 7. Overhaul procedures**
- 8. Engine applications in agriculture**

Classroom Policies:

Presence in class, class participation and interest is important to your overall class average. After three absences, 10 points will be deducted from the course grade, for each additional class missed. Upon your sixth absence you will be dropped.

Cheating/Plagiarism:

Scholastic dishonesty shall include, but not be limited to, cheating on a test, plagiarism, and collusion. "Cheating on a test" shall include

- (a) Copying from another student's test paper
- (b) Using test materials not authorized by the person administering the test
- (c) Collaborating with or seeking aid from another student during a test without permission from the test administrator
- (d) Knowingly using, buying, selling, stealing, or soliciting, in whole or in part, the contents of an un-administered test
- (e) The unauthorized transporting or removal, in whole or in part, of the contents of the un-administered test
- (f) Substituting for another student, or permitting another student to substitute for oneself, to take a test, and
- (g) Bringing another person to obtain an un-administered test or information about an un-administered test.

"Plagiarism" shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work.

"Collusion" shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements.

Any student who is found to be in violation of scholastic dishonesty may receive a grade of "0" on the course work involved.

Drop Policy: A student may withdraw (drop) from a course and receive a grade of "W" at any time during a given course. Continuing Education courses students must complete a drop form and return it to the instructor or to the Continuing Education office. The Drop Form can be found on the CE website.

Research Resources:

The student is encouraged to use the TVCC Libraries as research resources for this course. Students can search the TVCC Library Resource Center holdings through the on-line catalog. Electronic library resources provide access to full-text and abstract articles as well as links to a variety of remote research tools. The physical library contains a specialized collection of research materials specifically chosen to support the degrees and courses offered at TVCC. Students with research questions or questions about library services are encouraged to email their question to lrc@tvcc.edu.

Additional Information:

You should develop a backup plan should your system or your Internet provider fail you. This is not a valid excuse for missing a deadline. The college provides many opportunities for using equipment as do many public libraries.

Student's Responsibility:

This syllabus contains information, policies and procedures for a specific course. By enrolling, the student agrees to read, understand, and abide by the rules, policies, regulations, and ethical standards of Trinity Valley Community College as contained in the current catalog and schedule of classes.

Student Evaluation of Courses/Faculty:

Evaluation is an important component in promoting continuous improvement, enhancing student learning, and achieving excellence in the educational process. Therefore, TVCC administers student course evaluations for every class. Students are encouraged to complete the course evaluations for all of their courses.

Affirmative Action:

TVCC is an affirmative action/equal opportunity institution which provides educational and employment opportunities on the basis of merit and without discrimination or harassment in full compliance with the Civil Rights Act of 1964, as amended; the Rehabilitation Act of 1973 (Section 503,504); Americans with Disabilities Act, as amended, Title IX of the Educational Amendments of 1972; the Vietnam Era Veterans Assistance Act of 1974; Article 5221k V.A.C.S.; and Executive Orders 11246 and 11758.

Title IX of the Education Amendments:

TVCC prohibits discrimination, including sexual harassment and retaliation, against any student on the basis of race, color, religion, gender, national origin, disability, or any other

basis prohibited by law. Any student who believes that he or she has experienced prohibited conduct or believes that another student has experienced prohibited conduct should immediately report the alleged acts to an instructor, counselor, administrator, or the Title IX Coordinator. TVCC has designated the Director of Human Resources/Title IX Coordinator as the individual who is responsible for coordinating its efforts to comply with Title IX of the Education Amendments of 1972, as amended. Contact information is:

Director of Human Resource/Title IX Coordinator
Office Phone: 903-675-6215

American with Disabilities Act (ADA)

Trinity Valley Community College provides equal opportunities for academically qualified students with disabilities and ensures access to a wide variety of resources and programs. The passage of Section 504, Federal Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990 requires that the college make certain special arrangements for students with disabilities such as moving classes to accessible locations when necessary, allowing the use of tape recorders, sign language interpreters, or other educational auxiliary aids, making special test arrangements, and other accommodations. The college will make reasonable accommodations for qualified students with a diagnosed physical and/or learning disability who have been admitted to the college and request accommodations.

Students with disabilities who wish to request accommodations should notify the Disability Services Office on their campus. In accordance with federal law, a student requesting accommodations must provide documentation of his/her disability to the Disability Services counselor. For more information, please visit the Disability Service Office on your campus or contact Melinda Berry at 903-675-6224 or email mlberry@tvcc.edu. For additional information, please visit:

<http://www.tvcc.edu/guidance/studentswithdisabilities.aspx>.