SYLLABUS
AGR 475 Special Problems
For
Ashley R. Crosby and Caleb M. Sides

INSTRUCTOR: Dr. Craig H. Morton

OFFICE: 107 Agricultural Engineering Technology Building

OFFICE HOURS: M none, T 9:00 to 12:00, W 11:00 to 12:00 and 4:00 to 5:00, R 9:00 to 10:00, F 9:00 – 12:00 and 1:00 to 2:00, other times by appointment

Contact Information: phone 936-468-4250; email rangermorton1972@yahoo.com (not SFASU email address)

Credit Hours: 3

Course Description: Three semester hours of individual instruction in laboratory problems. Prerequisite 12 hours of agriculture.

Course Assignment and Grade: Satisfactory completion of the course will be based on the acceptability level of student work as evaluated by the instructor. A standard letter grade will be assigned at the completion of the class.

Program Learner Outcomes for Caleb M. Sides:

The student will demonstrate competence of technical subject matter areas in mechanized agriculture. Specifically, the student will do the following:

1. Inventory parts for four Lab-Volt hydraulic trainers, develop a shortage list, and determine how many complete or nearly complete trainers can be assembled from existing assets. Unneeded parts and pieces will be scrapped and the remaining parts and pieces will be assembled into working trainers.
2. Manuals pertinent to the trainers will be obtained and copies made to support teaching the lab portion of AGM 425, Mobile Hydraulics.
3. The student will coordinate with and meet the hydraulics instructor at Angelina College and obtain any additional parts and written material that support the use of the trainers.
4. The student will conduct searches for any missing hardware and/or manuals and make purchases where practical in order to outfit trainers.
5. The student will exhibit problem solving skills based on quantitative and analytical reasoning.
5. The student will demonstrate effective communication skills. Specifically he will keep the instructor informed of progress in meeting the above listed goals.
Program Learner Outcomes for Ashley R. Crosby:

1. The student will demonstrate competence of technical subject matter areas in mechanized agriculture. Specifically, the student will disassemble a small engine, measure parts subject to wear using precision instruments, reassemble and start the engine.
2. The student will exhibit problem solving skills based on quantitative and analytical reasoning.
3. The student will read provided written material pertinent to internal combustion engines and pass four written exams as per the following:

   - History of engines
   - Engine operating principles
   - Identification and function of engine parts
   - Fundamentals of machines
   - Exam I
   - Exam critique
   - Fuels and principles of combustion
   - Fuel systems
   - Intake and exhaust systems
   - Valves and valve trains
   - Controlling engine speed – the governor
   - Providing clean air for the engine
   - Igniting the fuel charge
   - Exam II
   - Exam critique
   - Electrical accessories
   - Diesel engines
   - Cooling the engine
   - Lubricating oils and greases
   - Lubricating systems
   - Exam III
   - Exam critique
   - Course Review
   - Comprehensive Final Exam

4. The student will demonstrate effective communication skills. Specifically she will keep the instructor informed of progress in both the hands-on and self-study portion of the course.

Daily Activities:

This course is largely self-scheduled. The student will be responsible for devising and implementing a work schedule appropriate for timely course completion.
Academic Integrity (A-9.1)

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/