SCHOOL OF AGRICULTURE

COURSE NUMBER: AGR 777 CREDIT HOURS: 3

I. **TITLE:**
Agricultural Power and Machinery

II. **CATALOG DESCRIPTION:**
Analysis of Agricultural machines, power units and equipment. Securing, adjusting, and preventative maintenance in order to obtain maximum efficiency.

*To receive graduate credit for this course, a student must be admitted to graduate studies prior to registering for the course.*

III. **PURPOSE:**
To provide students with a background in selection, comparison, and maintenance of farm machinery.

IV. **COURSE OBJECTIVES:**
A. To provide information on the latest machinery in use in the agriculture industry.
B. To provide information in an unbiased manner so fair comparisons and selection could be made based upon need.
C. To provide information on proper care and maintenance of the machinery.

V. **CONTENT OUTLINE:**
A. Orientation
B. Crop Production Equipment
C. Harvesting and Handling Equipment
D. Power and Power Transmission Components
E. Machinery Management

VI. **INSTRUCTIONAL ACTIVITIES:**
A. Lecture
B. Labs
C. Demonstrations
D. Field Trips
E. Audio-Visual Presentations

VII. FIELD AND CLINICAL EXPERIENCES:

A. On farm visits
B. Visits to Machinery Dealers

VIII. RESOURCES:

A. Resource Personnel
B. Textbooks and magazines on reserve
C. Field trips to equipment manufacturers
D. Handouts

IX. GRADING PROCEDURES:

- 90 - 100 = A
- 80 - 89 = B
- 70 - 79 = C
- 60 - 69 = D
- Below 60 = E

There will be two major one-hour examinations worth 100 points. Each student will be assigned one piece of agricultural machinery as a project. The project/report will consist of finding everything out about that machine that is possible; e.g. specifications, cost maintenance, operation, etc. Enough copies of that report will be made and distributed to each class member. These reports may run in conjunction with area resource personnel who sell and/or service the machinery. The project/report will count as 100 points (one major test).

200 pts - Test
100 pts - Report/project
100 pts - Lab work (attendance and participation is included in this grade)

X. ATTENDANCE POLICY:

Please refer to the most current copy of the Murray State University’s Undergraduate Bulletin and Graduate Bulletin.

XI. ACADEMIC HONESTY POLICY:

(Adopted by the MSU Board of Regents)
Cheating, plagiarism (submitting another person’s material as one’s own), or doing work for another person which will receive academic credit are all impermissible. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, term papers, or the
presentation on unacknowledged material as if it were the student’s own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

NOTE: The School of Agriculture Faculty have adopted and implemented an Academic Honesty Policy in addition to the University Honesty Policy, which can be found in the current Undergraduate Bulletin and Graduate Bulletin. The policy sets guidelines regarding acts of dishonesty and the procedure to follow should an event occur. It is each Agriculture student’s responsibility to obtain and read a copy of this document. The School’s Academic Honesty Policy can be obtained by asking for a copy from any Agriculture Faculty member or the Secretary.

XII. TEXT AND REFERENCES:

Agricultural Power and Machinery

XIII. PREREQUISITES:

Must be a graduate student

XIV. STATEMENT OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY:

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities. For more information, contact Sabrina Y. Dial, Director of Equal Opportunity, Murray State University, 103 Wells Hall, Murray, KY 42071-3318. Telephone: 270-809-3155 (voice), 270-809-3361 (TDD).

XV. MSU SCHOOL OF AGRICULTURE CELL PHONE POLICY

The School of Agriculture recognizes that in today’s world cell phones are a familiar and often necessary form of communication for students.

It shall be the policy of the School that no cell phone usage shall be allowed in class and/or labs without the prior consent of the course instructor. This shall
include verbal calling, incoming calls, email, text messaging, and use of cell phone calculators on tests and quizzes.

Cell phones must be kept off and out of sight (i.e. secured to a person’s belt or kept in a bag or purse away from desks and lab counters).

Should a student’s cell phone be visible, ring, or other form of unauthorized usage that is interruptive to the class or lab, the student may be asked to leave class and not return for that class/lab period.

Upon prior consent of the instructor, a student may obtain permission to have their phone on in case of an emergency or in critical family situations.

This policy also includes pagers and other electronic equipment such as blackberries and/or computers/laptops.