SCHOOL OF AGRICULTURE

COURSE NUMBER: AGR 606  
CREDIT HOURS: 3

I. **TITLE:**

Reproductive Physiology

II. **CATALOG DESCRIPTION:**

A study of the reproductive processes in mammals with primary emphasis on domestic farm animals. Will include the anatomy, endocrinology, behavior, and general physiology of the reproductive processes. Artificial insemination, estrous control, ova transplants, and other practical production practices will be covered. Prerequisites: AGR 100

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

III. **PURPOSE:**

To acquaint the student with the anatomy, physiology, and endocrinology of the male and female reproductive tracts. This class will include hands-on experience in dealing with common reproductive disorders of the livestock species.

IV. **COURSE OBJECTIVES:**

To acquaint the student with the anatomy, physiology, and endocrinology of the male and female reproductive tracts.

V. **CONTENT OUTLINE:**

A. Anatomy of male reproductive tract
B. Anatomy of female reproductive tract
C. Endocrinology
D. Heat cycles
E. Manipulation of the heat cycle
F. Breeding practices
G. Gestation
H. Parturition
I. Lactation
VI. **INSTRUCTIONAL ACTIVITIES:**

Each week there will be a two-hour lab, which will correspond with the lecture material as closely as possible.

There will be three major one-hour examinations given each worth 100 points. These examinations will be scheduled one week in advance so there should be no reason for missing the examinations. If an exam is missed, a comprehensive essay examination will be given the week of finals as determined by the instructor.

The final exam will be given as scheduled in the schedule booklet.

Due to the amount and content of material, pop quizzes may be given at the discretion of the instructor to make the students remain current in their studies. There will be no chance to make these quizzes up.

VII. **FIELD AND CLINICAL EXPERIENCES:**

Laboratories:

A. Dissection of the Testicle  
B. Semen Collection and Evaluation  
C. Dissection of the Female Reproduction System  
D. Palpation for Pregnancy  
E. Artificial Insemination  
F. Miscellaneous

VIII. **RESOURCES:**

Supplemental Text:

*Reproduction in Farm Animals*, by Hafez  
*Anatomy and Physiology of Farm Animals*, by Frandson and Spergeon.

Outside reading assignments will be given.

All students are encouraged to have the following:

A. Boots  
B. Coveralls
IX. **GRADING PROCEDURES:**

Grades will be based upon the cumulative scores of the hour examinations, pop quizzes, written assignments, written final, laboratory participation, and a laboratory final.

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

The Final grade is calculated by taking the total number of points possible divided into the number earned.

**Graduate students taking this course for credit are required to write a comprehensive term paper dealing with reproduction. The instructor and student will discuss this on an individual basis.**

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:**

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

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:**

Hafez, Reproduction in Farm Animals, 2000

XIII. **PREREQUISITES:**
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.