



DEPARTMENT OF ANIMAL SCIENCE

COURSE OUTLINE – XXX 2019-2020

**AH601 INTRODUCTION TO ARTIFICIAL INSEMINATION LARGE ANIMAL – 1 (9-0-9) 36
HOURS 8 WEEKS**

INSTRUCTOR:	Christy Barlund, DVM	PHONE:	(780) 835-6701
OFFICE:	ANIMAL SCIENCE BUILDING FAS 144 Lab FAS 145 Lecture	E-MAIL:	aht@gprc.ab.ca
OFFICE HOURS:	As posted		

PREREQUISITE(S)/COREQUISITE:

- Must be registered in the GPRC Animal Health Technology Program
- Participants must be accustomed to cattle handling

REQUIRED TEXT/RESOURCE MATERIALS:

- Handouts provided on the S: drive
- The *Alberta Breeders Service A.I. Management Manual*
- Registrants are expected to bring their own protective clothing (coveralls, rubber boots, gloves, etc.).

CALENDAR DESCRIPTION:

This course will discuss and practice techniques of Artificial Insemination in cattle. Basic anatomy and procedures will be covered. Intended for private use.

CREDIT/CONTACT HOURS:

1 (9-0-9) 8 weeks, 36 Hours

DELIVERY MODE(S):

Lab & Lecture

OBJECTIVES:**Learn about cow reproductive tracts, the estrous cycle****Heat Detection, Heat Detection Aides, Synchronization**

- For successful completion of the course, a student should be able to identify and describe the normal anatomy and explain the physiology of the reproductive tract of the cow including the hormonal changes, ovarian changes and uterine changes that occur at each stage.
- For successful completion of the course, a student should be able to identify and explain breeding behaviour of cattle.
- For successful completion of the course, a student should be able to explain the manipulation of the estrous cycles of cattle in order to improve reproductive performance.
- For successful completion of the course, a student should be able to explain and demonstrate AI technique as a means to increase fertility.
- For successful completion of the course, a student should be able to explain basic genetic improvement of livestock sire and dam selection.
- For successful completion of the course, a student should be able to explain basic disease control mechanisms.

Nutrition and its effect on Reproduction**Introduction to Semen Tank****Discuss options to decrease breeding expense and factors that affect AI success**

GRADING CRITERIA:
GRADING CONVERSION CHART for ANIMAL HEALTH TECHNOLOGY
OVERALL GRADE POINT AVERAGE HAS TO BE 2.0 OR HIGHER TO BE SUCCESSFUL IN THE AHT PROGRAM.

Alpha Grade	4-point Equivalent	Percentage Guidelines		Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100		C+	2.3	67-69
A	4.0	85-89		C	2.0	63-66
A-	3.7	80-84		C-	1.7	60-62
B+	3.3	77-79		FAIL	1.3	55-59
B	3.0	73-76		FAIL	1.0	50-54

EVALUATIONS:

Mark Distribution

- A. PARTICIPATION 70%
 - B. FINAL EXAM 30%
- 100%

STUDENT RESPONSIBILITIES:

Enrolment at GPRC assumes that the student will become a responsible citizen of the College. As such, each student will display a positive work ethic, take pride in and assist in the maintenance and preservation of Institute property, and assume responsibility for his/her education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting instructor expectations concerning attendance, assignments, deadlines, and appointments.

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the College Policy on Student Misconduct: Plagiarism and Cheating at https://www.gprc.ab.ca/files/forms_documents/Student_Misconduct.pdf

**Note: all Academic and Administrative policies are available at <https://www.gprc.ab.ca/about/administration/policies/>

COURSE SCHEDULE/TENTATIVE TIMELINE:

- Lecture: Tuesdays 4 – 4:50pm JANUARY 2 – MARCH 1, 2019
- Laboratory: Feb 7 – 10 2019
- Final Exam 4 – 4:50pm February 26 2019 FAS 143

YEAR:
