

BEEF PRODUCTION

AGR 327

4 Credits

Time: Lec. MWF 9:05-9:55
Lab. W 10:10-12:05

Location: Room 18, Carter Building

Instructor: Dr. Bruce R. Pratt
Rm. 4, Carter Bldg.
Phone: 622-2237
E-mail: <bruce.pratt@eku.edu>
Office Hours: Open Door Policy

Course Objectives:

- 1) To familiarize students with the types of beef cattle enterprises an scope of the beef industry in Kentucky and the United States.
- 2) To understand the factors that affect marketing, pricing and other business decisions in the cattle industry.
- 3) To acquaint students with modern husbandry and management practices in the raising of beef cattle, including: Reproduction and Genetics, Nutrition and Health Management.

Text: *Beef Production & Management Decisions* 4th Edition by Fields & Taylor. The text is not required but is highly recommended. The text is intended to supplement lecture material.

Laboratory: The laboratory is intended to be a hands on experience where the students can gain practical knowledge of the cattle industry. Twenty-five points toward the final grade in the course is awarded for the laboratory. The grade is based entirely on the instructors observation of participation in the laboratory exercises.

Exams and quizzes may contain material covered in laboratory.

Many laboratories will be held at Meadowbrook Farm. It is the responsibility of the student to dress appropriately for the weather and type of laboratory exercise.

Attendance in laboratory is required. Laboratories can not be made up.

Students with Disabilities: If there is any student in this class who is in need of academic accommodations and who is registered with the Office of Services for Students with Disabilities, please make an individual appointment with the course instructor to discuss accommodations. Upon individual request, this syllabus can be made available in alternative forms. If any student who is not registered with the Office of Services for Students with Disabilities has need of academic accommodations, please contact the Office directly either in person at SSB 361 or by telephone at 622-1500.

The Last day to Drop the Class is March 5, 2004.

Students will have one quiz and one Exam graded and returned before March 5th.

Abstracts and Discussions of Current Topics: On Friday Jan 16, Jan. 30, Feb.13, 27, Mar. 19, April 16, & 30 we will have discussions of current articles pertaining to the Beef Industry. You are to

BEEF PRODUCTION

read and abstract a current article relating to the Beef Industry and be prepared to discuss the article in front of the class. One of the seven articles must be from a referred scientific journal such as the Journal of Animal Science. Each article is worth 10 points. **The abstracts should summarize the article and include an statement on your conclusions and impact on the beef industry.** The abstract should be between 1/3 to 1/2 half page long, single spaced and typed. Students not in attendance to present their abstracts will be penalized 5 points.

Exams and Quizzes: All exams will cover the material from lecture and laboratory from the previous exam or quiz. Dates for the exams and quizzes are scheduled and will not change.

	<u>Points</u>	<u>Date</u>
Quiz 1	30	Jan. 28
Exam 1	100	Feb. 18
Exam 2	100	March 31
Final	200	May 3 (1:00-3:00)
	70	Abstracts
	20	Points from Laboratory Participation
	<u>30</u>	Beef Breed/Computer Assignment
Grand Total	550	

The final exam will be comprehensive. 100 Points will be new material and 100 points will cover the entire course.

Grading:

<u>Grade</u>	<u>% of Total</u>
A	92
B	84
C	74
D	62

Agriculture Department Attendance Policy Students in Agriculture/Horticulture classes are required to attend all scheduled class meetings. If students have a legitimate reason to be absent (personal illness, critical illness, death in their immediate family or participation in an approved University activity) they are expected to discuss it with the instructor prior to the anticipated absence and make arrangements for any make-up work that must be done. Completion of make-up work is the responsibility of the student. The instructor will judge the validity of the reason for an absence.

In case of an emergency of such nature that the above requirements cannot be met, the student should inform the instructor at the first opportunity after the student's return to the campus and should present adequate and documented reasons. Absences in excess of 20 percent of a class will automatically result in a failing grade unless this is waived by the instructor and department chair.

Students who have unexcused absences forfeit the right to do make-up work especially quizzes, exams and laboratories given that day.

Enforcement of this policy is the responsibility of the instructor. Unexcused absences may be used as a factor in determining a grade for the course.

BEEF PRODUCTION

Lecture Syllabus

<u>Date</u>	<u>Day</u>	<u>Topic(s)</u>
Jan. 12 -16		Course Introduction; Historical & Biological Perspective of Cattle
Jan 18		Abstract & Discussion of Current Articles
Jan 21 - 26		Advantages & Disadvantages of Raising Beef
Jan. 28		Quiz 25 Points.
Jan. 30		Abstracts & Discussion of Current Articles
Feb. 2 - 9		Cow/Calf Operations - An Overview
Feb. 11-15		Stocker Cattle - An Overview
Feb. 13		Abstracts & Discussion of Current Articles
Feb. 18		EXAM 1 - 100 Points
Feb. 20 -25		Factors affecting the Price of Stocker and Finishing Cattle- Cattle Marketing
Feb. 27		Abstracts & Discussion of Current Articles
Mar. 1-3		Management for Genetic Improvement
Mar. 5		Faculty Retreat - No Class (
Mar 8-12		Spring Break
Mar. 15-17		Expected Progeny Differences
Mar. 19		Abstracts & Discussion of Current Articles
Mar. 22		Crossbreeding Programs
Mar. 24-29		Reproductive Management of Cattle
Mar. 31		EXAM 2 - 100 Points
April 2		Professional Skills Conference (8:00-1:30)- Juniors & Seniors must attend
		Abstracts - Written only - no class due to the Professional Skills Conference
April 5 - 14		Health Management of Cattle
April 16		Abstracts & Discussion of Current Articles
April 19 -28		Nutritional Management of Cattle
April 30		Abstracts & Discussion of Current Articles
May 3		Final Exam - 200 Points (1:00-3:00)
		100 Points New Material - 100 Points Comprehensive

BEEF PRODUCTION

LABORATORY SCHEDULE

Wednesday 10:10 - 12:05

<u>Date</u>	<u>Topic</u>	<u>Location</u>
Jan 14	Introduction to Assignment with Computer and Breeds of Livestock	Combs - White Room
Jan. 21	Weigh Cattle - Calculate ADG	Meadowbrook
Jan 28	Cattle Restraint; Dehorning Calves	Meadowbrook
Feb. 4	Prenatal Care of Cows	Meadowbrook
Feb 11	Ration Formulation for Cow/Calf	Carter
Feb 18	Ration Formulation for Stocker & Feeder Cattle	Carter
Feb. 25	Weigh Cattle - Calculate ADG & Feed Efficiency	Meadowbrook
Mar. 3	Expected Progeny Differences - Calculations across breeds	Carter
Mar. 17 & 24	Working Newborn Calves: Ear Tags Injection of vitamins & minerals & castration.	Meadowbrook
Mar. 31	Preconditioning Calves Implanting, Vaccination & Castrations	Meadowbrook
April 7	Calculation of Adjusted Records	Carter
Apr. 14	Field Trip	TBA
April 21	Computer Presentations	Carter
April 28	Computer Presentations	Carter

BEEF BREEDS/COMPUTER ASSIGNMENT

You May Choose to Do Either A Beef Breeds Report or The Computer Assignment. Both are worth 30 Points.

Beef Breeds Assignment:

Objectives:

- 1) To research the attributes of two breeds of beef cattle
- 2) To become familiar with computer presentation software
- 3) To present your ideas both orally and graphically.

Assignment:

- 1) Research the details of the development and current progress of two breeds of beef cattle.
 - a. The breeds will be assigned to you at random.
 - b. Sources: (1) writing the Breed Association
 - (2) World Wide Web:
 - (3) <Http://www.ansci.okstate.edu/breeds/>
 - (4) Principles of Animal Science -Ensminger
 - (5) Any other additional references
- 2) Develop a multimedia presentation of your two breeds using Microsoft's Power Point. The software and scanner are attached to one computer in the computer room. PowerPoint is in the MS Windows under Microsoft's Office icon.
- 3). Presentations of your breeds will be held in lab on April 21 & 28th.
- 4) The presentation and research are worth 30 points for both breeds (i.e. 15 pts/breed)

Computer Assignment:

BEEF PRODUCTION

Objectives:

1. To develop a computer records program for beef cattle.
2. To become familiar with spreadsheet and data base programs.
3. To present to the class how you developed and how to run the Beef Cattle Records Program.

Assignment:

1. Develop spreadsheet (Excel) and a data base (Access) program to keep track of beef cattle records. Records should include such items as: Cow Age, Breeding records (heat & breeding dates, calving dates, etc.), health records, adjusted weaning weights and MPPA (most probable producing ability).
2. Present the records program to the class on May 2, 2000.

College Professional Development: April 2, 8 AM to 1:30 PM required by all Junior and Seniors. More information will be given at a later date. No Class that Day.